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(54) Title: NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES

WO 01/55320

(57) Abstract: The present invention relates to novel reproductive system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "reproductive system related antigens", and the use of such reproductive system related antigens for detecting disorders of the reproductive system, particularly the presence of cancers and cancer metastases. More specifically, isolated reproductive system associated nucleic acid molecules are provided encoding novel reproductive system associated polypeptides. Novel reproductive system related polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including reproductive system cancers, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Nucleic Acids, Proteins, and Antibodies

- [001] This application refers to a "Sequence Listing" that is provided only on electronic media in computer readable form pursuant to Administrative Instructions Section 801(a)(i). The Sequence Listing forms a part of this description pursuant to Rule 5.2 and Administrative Instructions Sections 801 to 806, and is hereby incorporated in its entirety.
- The Sequence Listing is provided as an electronic file (PC006PCT_seqList.txt, 20,399,961 bytes in size, created on January 12, 2001) on four identical compact discs (CD-R), labeled "COPY 1," "COPY 2," "COPY 3," and "CRF." The Sequence Listing complies with Annex C of the Administrative Instructions, and may be viewed, for example, on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, version 2000 (see World Wide Web URL: http://www.fileviewer.com).

Field of the Invention

[003] The present invention relates to novel reproductive system related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and cancer metastases. More specifically, isolated reproductive system nucleic acid molecules are provided encoding novel reproductive system polypeptides. Novel

reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Background of the Invention

[004] The human reproductive system enables continuation of the species. Human beings reproduce sexually, require the involvement of both a male and a female. Reproduction involves the coalition of sex cells. A new human being begins its development after a sex cell (sperm), created by the male unites with a sex cell (ovum) created by the female. Both the male and female reproductive systems function through the complex interaction of several organs. Diseases or malfunctions of these organs can impair reproduction or cause infertility.

The Male Reproductive System

[005] Male reproductive functions can be divided into three major subdivisions; spermatogenesis (the formation and maturation of sperm), performance of the male sexual act (arousal, erection, and ejaculation), and regulation of male sexual functions by the various hormones (mainly testosterone). Associated with these reproductive functions are the effects of the male sex hormones on the accessory sexual organs, cellular metabolism, growth, and on several other bodily functions. The onset of sexual maturation and these reproductive functions in males occurs at puberty, which, in humans, typically begins around age thirteen.

[006] The male reproductive system is composed of the testes, a pair of organs contained in the scrotum which include the seminiferous tubules and epididymus;

secretory glands, such as the prostate gland, seminal vesicles, bulbourethral glands, and urethral glands; tubular passageways, such as the vas deferens and urethra; and the penis, which functions in performance of the sexual act and sperm transmission.

[007] Common disorders of the male reproductive system include infections, cancers, and inflammations of the above listed components, which are described in greater detail below.

Disorders of the Testes

- [008] The two primary functions of the testes are 1) production of testosterone and 2) production of sperm. Testosterone produced in the testes is released into the blood stream, where it travels to and acts on a wide range of tissues and organs within the male body. Disorders resulting from testosterone deficiency are manifested in the male reproductive system typically by symptoms of hypogonadism, which is the failure to go through puberty. Specifically, erectile function is impaired, and libido and sperm production are decreased or absent.
- [009] Known dysfunctions of sperm production include aspermia (the failure to produce an ejaculate), asthenospermia (the production of an ejaculate in which less than 50% of spermatozoa are motile), azoospermia (the production of an ejaculate devoid of spermatozoa), oligospermia (production of an ejaculate containing less than 20x100 spermatozoa per milliliter of semen), and teratospermia (the production of an ejaculate in which more than 50% of the spermatozoa are of abnormal shape), all of which result in impaired fertility. Improper sperm formation may result from a variety of factors, including congenital defects, genetic abnormalities, injury, and infection. For example, contraction of the mumps virus early in male adolescence can infect the testicles, leading to permanent complications in sperm production.
- [010] Sperm formation may also be impaired by disorders of the epididymus, the labyrinthine tube system located in each testis where sperm mature. Common disorders include infections (e.g., Neisseria gonorrhoea, Pseudomonas, Enterobacteriaceae, and Chlamydia trachomatis), cyst formation or other obstructions, and enlargement of the spermatoceles (liquid filled cavities in the epididymus).
- [011] During fetal development, the testes mature within the abdominal cavity and descend through the inguinal canal into the scrotum prior to birth. It is well known

that the testicles reside in the scrotum because it is cooler than other places within the body cavity, and even minor temperature differences can have a dramatic influence on the ability of the testicle to make sperm. An undescended testicle, sometimes calle'd a cryptorchid testicle, is a fairly common problem in male babies. Typically, testicles undescended at birth will move into the scrotum within the first year of life, however in a small percentage of cases this migration does not occur. Early correction of this problem is crucial in preserving the fertility of the male, as the testicles begin to loose the ability to make sperm very early in life in they are not properly stored in the scrotum. Additionally, undescended testicles have a much higher rate of developing testicular cancer than testicles that descended spontaneously. Testicular cancer is the most common solid tumor in males aged 18 to 35. It typically is extremely aggressive and spreads early. A tumor of the testicle often shows itself by a fast enlargement of the testicle. Bringing the testes into the scrotum will allow for easier and more accurate examination of the testes, hopefully resulting in earlier detection of tumors. Further, undescended testicles are also associated with a greater risk of hernia.

- [012] Disorders of the scrotal pouch commonly involve the small amount of fluid lining the pouch that allows for small movements and cushioning of the testicles. Several causes, such as testicular torsion, trauma, or tumors, may lead to an increase in the amount of liquid, causing the scrotal pouch to bulge. While this condition is harmless, it may cause irritation and discomfort if the bulge becomes too large.
- [013] Another harmless, yet irritating disease of the testes is varicocele, a disorder of the small vein that run the blood from the testicle back toward the heart. Small valves are present in these veins to prevent blood from flowing back toward the testicles. Sometimes, these valves malfunction, causing backflow and subsequent enlargement of the small vessel network in the scrotal sac. This gives rise to dull pain and an uncomfortable "bag of worms" feeling around the scrotum. There is currently considerable debate as to whether this phenomenon also contributes to decreased fertility.

Disorders of the Vas Deferens and Seminal Vesicles

[014] In the vas deferens, the sperm become mixed with a viscous, alkaline fluid from the seminal vesicles that constitutes 60% of semen. This fluid contains the

components for generating sperm motility and the enzymes necessary for fertilization of the egg within the female reproductive system. Disorders of the vas deferens and seminal vesicles are unusual, however a congenital defect where the vas deferens is absent is known to be associated with mutations in the CFTR gene, and a defect in seminal vesicle function is associated with the hydatid disease of the urogenital system.

Disorders of the Prostate Gland

[015] Disorders of the prostate gland are typically manifested by enlargement of the gland, leading to such symptoms as impaired urinary flow, infertility, and pain. For example, benign prostatic hyperplasia is the non-cancerous growth of the prostate gland, a condition that is fairly common in men over sixty. Prostate cancer, too, is extremely prevalent and is now the second most common type of cancer in males. Although men of any age can develop prostate cancer, it is found most frequently in men over age 50. Types of prostate cancers include, but not limited to, adenocarcinomas, transitional cell carcinomas, ductal carcinomas, and squamous cell carcinomas. The prostate is subject to infections or inflammation, which may also result in enlargement of the prostate, such as acute bacterial prostatitis, chronic bacterial prostatitis, and nonbacterial prostatitis.

Disorders of the Penis and Urethra

[016] During sexual activity, the penis becomes rigid and erect, enabling penetration and deposition of sperm. An erection results from complex interaction of neurologic, vascular, hormonal, and psychologic actions. Several types of infections and inflammatory disorders can effect the penis and its function. Balanoposthitis is a generalized inflammation of the head of the penis (glans penis) and foreskin, commonly caused by a yeast or bacterial infection beneath the foreskin of an uncircumcised penis. Symptoms include pain, itching, redness, and swelling and can ultimately lead to a narrowing (stricture) of the urethra. Other infectious and inflammatory disorders, such as balanitis xerotica obliterans (a hardening of the tip of the penis which ultimately blocks urine and semen flow), phimosis (the shrinking or tightening of the foreskin), paraphimosis (inability of the retracted foreskin to be

pulled back over the head of the penis), and Erythroplasia of Queyrat (an infection causing a clearly defined reddish, velvety area on the skin of the penis). If left untreated, many of these infections may become cancerous.

- [017] Other infections can lead to penile growths, such as the small painless sores associated with syphilis, tiny blisters from the herpes simplex virus, firm nodules from genital warts, and dimpled growths (molluscum contagiosum) from an unknown virus. Small sores and growths are also associated with skin cancers (e.g., squamous cell carcinoma, Bowen's disease, and Paget's disease) that can occur anywhere on the penis.
- Priapism is a painful, persistant erection unaccompanied by sexual desire or excitement. In most cases, priapism is believed to stem from habitual drug use, but is had also been associated with blood disorders (e.g., blood clots, leukemia, or sickle cell disease), tumors in the pelvis or spine, and infection of the genitals. Peyronie's disease is manifested as a fibrous thickening of tissue that causes the penis to develop contractures so that the shape of an erection is distorted. The curvature of the erect penis can make sexual penetration difficult or impossible and may make erections extremely painful. Current therapies include corticosteroid injections, ultrasound treatments, or, more commonly, surgery, which may lead to impotence.
- [019] Impotence, or erectile dysfunction, is the consistent or recurrent inability to attain and maintain a penile erection rigid enough for satisfactory sexual intercourse. Erectile dysfunction relates only to the erectile capability of the penis, excluding problems of libido, ejaculation, and orgasm. It is now accepted that the majority of cases have a physical and not a psychogenic root. Physical causes include anatomic deformations (e.g., malformed genitalia or penile injury), diabetes mellitus, coronary disease, hypertension, atherosclerosis, high cholesterol levels, multiple sclerosis, stroke, lower spine diseases, and rectal or prostate surgery.

The Female Reproductive System

[020] The female reproductive system is comprised of both external and internal organs. The external organs function in permitting sperm to enter the body and protecting the internal genital organs from infection and injury. The internal organs

form a pathway (the genital tract) for reproduction, beginning at the ovaries, through the fallopian tubes (oviducts) and uterus, to the birth canal (vagina).

[021] The sexual and reproductive functions in the female can be divided into two major phases: first, preparation of the body for conception, and second, the gestation and parturition. Gestation and parturition only occur if an ovum becomes fertilized. If fertilization does not occur, the reproductive system undergoes a cycle to ensure frequent readiness for conception and fertilization.

[022] Common disorders of the female reproductive system include infections, cancers, and inflammations of the organs, which are described in greater detail below.

Disorders of the Uterus

- Disorders of the uterus include absent bleeding (amenorrhea) and abnormal bleeding. Amenorrhea is normal only before puberty, during pregnancy, while breastfeeding, and after menopause. The absence of menses at other times is considered aberrant and may be indicative of problems in the brain, pituitary gland, thyroid gland, adrenal glands, ovaries, or virtually any other part of the reproductive tract. For example, the hypothalamus signals the pituitary gland to release hormones that cause the ovaries to release eggs. Inappropriately low levels of hypothalamic hormones prevent egg release, halting the menstrual cycle. The same is true for the thyroid and adrenal glands. To illustrate, in Cushing's syndrome, excess production of cortisol by the adrenal glands causes periods to be absent or irregular. The absence of periods can also be caused by growths (e.g., hydatidiform moles) or scarring of the uterine lining due to infection or surgery (e.g., Asherman's syndrome).
- [024] Some women do not undergo puberty at all consequently their periods never start. Causes include a birth defect in which the uterus or fallopian tubes develop abnormally and chromosomal disorders. For example, in Turner's syndrome, the female was formed from a zygote containing only one X chromosome and shows reproductive abnormalities, such as amenorrhea and chronically immature breasts, labia, vagina.
- [025] Premature menopause is also a condition resulting in amenorrhea. Menopause is considered abnormal when it occurs in women under the age of forty. Causes of premature menopause include genetic (usually chromosomal) abnormalities and

autoimmune disorders in which antibodies damage the ovaries. Estrogen replacement therapy can prevent or reverse the symptoms of menopause, however the chance of conceiving a child remains less than ten percent.

- [026] Uterine bleeding is considered abnormal when it is atypically heavy, light, frequent, or irregular. Moreover, bleeding before puberty or after menopause is almost always abnormal. Uterine polyps, fibroids (noncancerous growths of muscle and fibrous tissues), and cancers are common causes of abnormal uterine bleeding and usually can be surgically removed. Cancers of the uterus include adenocarcinomas (cancers arising from the endometrial lining), leiomyosarcomas (cancers of the uterine smooth muscle), and sarcomas (cancers arising from the stroma).
- [027] Aberrant bleeding resulting from hormonal irregularities (commonly referred to a dysfunctional uterine bleeding) occurs most frequently at the beginning and end of the reproductive years and typically results from sustained levels of estrogen. For example, in polycystic ovary syndrome the overproduction of luteinizing hormone stimulates the production of large amounts of androgens some of which are converted to estrogen-which, without sufficient progesterone to counteract its effects, induces abnormal uterine bleeding.
- [028] Endometriosis is a disorder of the uterus in which patches of endometrial tissue, which normally is found only in the uterine lining, grow outside the uterus. Because the misplaced tissue responds to the same hormone that the uterus responds to, it may bleed during the menstrual period, causing cramps, pain, irritation, and the formation of scar tissue. As the disease progresses, adhesions may form and block the functioning of organs.
- [029] Disorders of uterine contraction include, for example, dysmenorrhea and preterm labor. During a normal period, the uterus undergoes mild contractions in order to aid in blood flow. Dysmenorrhea results when the contractions become inappropriately strong, inhibiting blood flow to the uterus. This deprives uterine muscle of oxygen, causing severe abdominal pain, as well as nausea, vomiting, diarrhea, headaches, weakness, and/or fainting. Sever cases of dysmenorrhea can significantly disrupt a womans life, leading to heavy work/school absenteeism and cases of pain killer addiction. Pre-term labor is also aserious problem, resulting in a dramatic rise in associated infant morbidity and mortality (83% of infant deaths occur

in gestations less than 37 weeks). Therapies for extending the length of pregnancy beyond 32 weeks, and preferably beyond 36 weeks, could significantly reduce the incidence of neonatal morbidity and virtually eliminate a major cause of neonatal mortality.

Disorders of the Ovary

- [030] Anovulation (the absence of egg release by the ovaries) is a serious condition leading to infertility. The exact etiology of anovulation, especially in women with otherwise normal menstrual cycles, is unclear, however several potential causes are under study, including: impaired follicular development (probably due to low or absent estrogen production or binding), normal follicular development with lack of egg release (probably due to progesterone deficiency), or insufficient production of gonadotropin-releasing hormone from the hypothalamus. Current treatments include clomiphene injections or hormonal therapy, although both can lead to serious side effects such as ovarian cancer and ovarian hyperstimulation syndrome.
- [031] Anovulation is also associated with polycyctic ovary syndrome (also known as Stein-Leventhal syndrome). This syndrome is and endocrine disorder characterized by an elevated level of male hormones (androgens). Other than anovulation, symptoms include growth of male-patterned body hair (hirsutism), excessive acne, irregular or absent menses, excessive bleeding, and obesity. Usually, the ovaries appear enlarged and may contain many follicular cysts.
- [032] Ovarian cancer develops most often in women between the ages of 50 and 70. It is the third most common cancer of the female reproductive system, but more women die of ovarian cancers than of any other. Ovaries include a variety of cell types, each of which may give rise to a distinct type of cancer, including, but not limited to, ovarian epithelial cancer, ovarian germ cell tumors, ovarian papillary serous adenocarcinoma, ovarian mucinous adenocarcinoma, ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and ovarian low malignant tumors.
- [033] Other disorders of the ovaries also include, but are not limited to, inflammatory disorders, such as oophoritis (e.g., caused by viral or bacterial infection), ovarian cysts, and autoimmune disorders (e.g., premature ovarian failure and autoimmune oophoritis).

Disorders of the Vagina and Vulva

[034] The vagina and vulva are self-cleaning. Secretions and discharges flow downward through the vagina and vulva, flushing out dead cells and other substances. Despite this cleaning mechanism, infections and inflammation are a common problem. The most common vaginal infections are bacterial vaginitis, candida vaginitis (e.g., yeast infections), trichomonas vaginitis, and vulvitis. Vaginal or vulvar itching, irritation, and abnormal discharge characterize all.

[035] Cancer of the vagina is extremely rare, accounting for only two percent of all gynecological cancers, and occurs primarily in women over the age of 50. The severity of the disease depends on the type of cancer and its exact location. Varieties include, for example, squamous cell carcinoma and clear cell adenocarcinoma. Once cancer appears in the vagina, it easily spreads to surrounding tissues. Vulvar cancer is equally unusual as vaginal, and is predominantly manifested as a form of skin cancer, e.g. squamous cell carcinomas and basal cell carcinomas. Other vulvar cancers include Paget's disease, cancer of Bartholin's gland, and melanomas. Unlike cancer of the vagina, vulvar cancers typically grow slowly and infrequently metastasize.

Disorders of the Breast

- [036] Disorders of the breast typically involve the formation of lesions within breast tissue. While many of these lesions are benign in nature, they may lead to cancer if left untreated.
- [037] Benign breast lesions include, for example, cysts, which are non-cancerous, fluid-filled sacs that forma mass within breast tissue. The cause of breast cysts is unknown, though injury may be involved, and their main symptom is pain. While considered harmless, a professional should drain cysts and the fluid examined because cancer of the cyst wall, although quite rare, is possible.
- [038] Other benign breast lesions include fibrous breast lumps (fibroadenomas), breast infection (mastitis), intraductal papilloma, and abscesses. Fibrous breast lumps are small, solid lumps of glandular tissue. These lumps usually appear in young women, often in teenagers, and are easy to remove. Intraductal papilloma are small lumps located within a milk duct, often causing inappropriate discharge from the

nipple. Breast abscesses are collections of pus in breast tissue that develop from breast infections that go untreated.

[039] Breast cancer is the most common cancer among women, other than skin cancer and is the second leading cause of cancer death in women, after lung cancer. The American Cancer Society predicts that there will be about 182,800 new cases of invasive breast cancer in the year 2000 among women in this country and about 40,800 deaths from the disease. Breast cancer also occurs among men, although much less often. It is generally believed that this malignancy arises from a multi step process involving mutations in a relatively small number of genes, perhaps 10 or less. These mutations result in significant changes in the growth and differentiation of breast tissue that allow it to grow independent of normal cellular controls, to metastasize, and to escape immune surveillance. The genetic heterogeneity of most breast cancers suggests that they arise by a variety of initiating events and that the characteristics of individual cancers are due to the collective pattern of genetic changes that accumulate.

[040] The discovery of new human reproductive system associated polynucleotides, the polypeptides encoded by them, and antibodies that immunospecifically bind these polypeptides, satisfies a need in the art by providing new compositions which are useful in the diagnosis, treatment, prevention and/or prognosis of disorders of the reproductive system, including, but not limited to, disorders of the male reproductive system including, for example, testicular disorders (e.g., hypogonadism, infection (e.g., Neisseria gonorrhoea, Enterobacteriaceae, and/or as described in the "Reproductive System Disorders" section below), asthenospermia, teatospermia, cryptorchid testicle, testicular cancers, varicocele, and/or as described in the "Reproductive System Disorders" section below), prostate disorders (e.g., prostate cancers, benign prostatic hyperplasia, and/or as described in the "Reproductive System Disorders" section below), disorders of the penis (e.g., balanoposthitis, phimosis, genital warts, skin cancer, priapism, Peyronie's disease, erectile dysfunction, and/or as described in the "Reproductive System Disorders" section below); and disorders of the female reproductive system including, for example, disorders of the uterus (e.g., Cushing's syndrome, Asherman's syndrome, Turner's syndrome, premature menopause, uterine cancers, endometriosis, and/or as described in the "Reproductive System Disorders" section below), ovarian disorders (e.g., anovulation, polycystic ovary syndrome,

ovarian cancers, and/or as described in the "Reproductive System Disorders" section below), vaginal and vulvar disorders (e.g., vulvitis, vaginal infections, Paget's disease, cancers of the vagina and vulva, and/or as described in the "Reproductive System Disorders" section below), and breast disorders (e.g., breast cancers, fibroadenomas, intraductal papillomas, and/or as described in the "Reproductive System Disorders" section below).

Summary of the Invention

[041] The present invention relates to novel reproductive system related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and cancer metastases. More specifically, isolated reproductive system nucleic acid molecules are provided encoding novel reproductive system polypeptides. Novel reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Detailed Description

Tables

[042] Table 1A summarizes some of the polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA plasmid related to each reproductive system associated contig sequence disclosed in Table 1A. The second column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for each of the contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A as SEQ ID NO:Y (column 5). Column 6 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4:181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1A as "Predicted Epitopes." In particular embodiments, reproductive system associated polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1A. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 7, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first

number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array, cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 8, "Cytologic Band," provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian

Inheritance in Man, OMIMTM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). If the putative chromosomal location of the Query overlapped with the chromosomal location of a Morbid Map entry, an OMIM identification number is provided in Table 1A, column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

- Table 1B summarizes additional polynucleotides encompassed by the [043] invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).
- [044] Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", corresponding to a cDNA disclosed in Table 1A. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1A and allowing for correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity

disclosed in the row was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of PFAM/NR hits having significant matches to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by the polynucleotides in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

[045] Table 3 provides polynucleotide sequences that may be disclaimed according to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to reproductive system associated contig sequences disclosed in Table 1A. The second column provides the sequence identifier, "SEQ ID NO:X", for contig polynucleotide sequences disclosed in Table 1A. The third column provides the unique contig identifier, "Contig ID", for contigs disclosed in Table 1A. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, represented as "Range of a", and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, represented as "Range of b", where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the polynucleotides of the invention (including polynucleotide fragments and variants as described herein and diagnostic and/or therapeutic uses based on these polynucleotides) are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth

column of this Table (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone).

- Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1A, column 7. Column 1 provides the key to the tissue/cell source identifier code disclosed in Table 1A, Column 7. Columns 2-5 provide a description of the tissue or cell source. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease". The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.
- Table 5 provides a key to the OMIMTM reference identification numbers disclosed in Table 1A, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIMTM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). Column 2 provides diseases associated with the cytologic band disclosed in Table 1A, column 8, as determined from the Morbid Map database.
- [048] Table 6 summarizes ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application.
- [049] Table 7 shows the cDNA libraries sequenced, tissue source description, vector information and ATCC designation numbers relating to these cDNA libraries.
- [050] Table 8 provides a physical characterization of clones encompassed by the invention. The first column provides the unique clone identifier, "Clone ID NO:Z",

for certain cDNA clones of the invention, as described in Table 1A. The second column provides the size of the cDNA insert contained in the corresponding cDNA clone.

Definitions

[051] The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

[052] In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide sequences of the present invention.

As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof, a nucleic acid sequence contained in SEQ ID NO:X (as described in column 3 of Table 1A) or the complement thereof, a cDNA sequence contained in Clone ID NO:Z (as described in column 1 of Table 1A and contained within a library deposited with the ATCC); a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B or a fragment or variant thereof; or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof. For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-Phenylalanine or poly-Lysine peptide

sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

polynucleotide disclosed herein (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement therof, or cDNA sequence contained in Clone ID NO:Z, or a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B, or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof and fragments or variants thereof as described herein) or any polypeptide disclosed herein (e.g., an amino acid sequence contained in SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, or the complement thereof, an amino acid sequence encoded by the cDNA sequence contained in Clone ID NO:Z, an amino acid sequence encoded by SEQ ID NO:B, or the complement thereof, and fragments or variants thereof as described herein). These reproductive system antigens have been determined to be predominantly expressed in reproductive system tissues, including normal or diseased tissues (as shown in Table 1A column 7 and Table 4).

In the present invention, "SEQ ID NO:X" was often generated by overlapping [055] sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 1 of Table 1A, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID NO:Z). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Furthermore, certain clones disclosed in this application have been deposited with the ATCC on October 5, 2000, having the ATCC designation numbers PTA 2574 and PTA 2575; and on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2. In addition to the individual cDNA clone deposits, most of the cDNA libraries from which the clones were derived were deposited at the American Type Culture Collection (hereinafter "ATCC"). Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID NO:Z to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC

Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID NO:Z) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1A correlates the Clone ID NO:Z names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 6 and 7 to determine the corresponding Clone ID NO:Z, which library it came from and which ATCC deposit the library is contained in. Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

In specific embodiments, the polynucleotides of the invention are at least 15, at least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5 kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

[057] A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID NO:Z (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein) and/or the polynucleotide sequence delineated in column 6 of Table 1B or the complement thereof. "Stringent hybridization conditions" refers to an overnight incubation at 42

degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

- [058] Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions. Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency), salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH₂PO₄; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 ug/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).
- [059] Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.
- [060] Of course, a polynucleotide which hybridizes only to polyA+ sequences (such as any 3' terminal polyA+ tract of a cDNA shown in the sequence listing), or to a complementary stretch of T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).
- [061] The polynucleotide of the present invention can be composed of any polyribonucleotide or polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-

stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons. "Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces chemically, enzymatically, or metabolically modified forms.

The polypeptide of the present invention can be composed of amino acids [062] joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a given polypeptide. Also, a given polypeptide may contain many types of modifications. Polypeptides may be branched, for example, as a result of ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphotidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation, gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, methylation, myristoylation, oxidation, pegylation, proteolytic processing,

phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992).)

- [063] "SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A or 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 5 of Table 1A. SEQ ID NO:X is identified by an integer specified in column 3 of Table 1A. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID NO:Z" refers to a cDNA clone described in column 1 of Table 1A.
- [064] "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).
- [065] Table 1A summarizes some of the reproductive system associated polynucleotides encompassed by the invention (including contig sequences (SEQ ID NO:X) and clones (Clone ID NO:Z) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby.

Polynucleotides and Polypeptides

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Clone ID	Contig	Contig SEQ ID	ORF	AA	Predicted Epitopes	Tissue Distribution	Cytologic	OMIM
NO: Z	ä	NO: X	(From-To)	SEQ		Library code: count	Band	Disease
				UO: Y		(see Table IV for Library Codes)		Reference(s):
H7MCE35	928554	11	71 - 3	2698		S0286: 1 and S0284: 1.		
H7MDC49	722780	12	125 - 3	5698		S0284: 2 and L0758: 1.		
H7MDD72	847688	13	100 - 510	2700	Glu-9 to Gly-22,	AR054: 6, AR050: 2,		
					Lys-50 to Lys-69,	AR051: 1, AR089: 1,		
		•			Gly-91 to Arg-107,	AR061: 0		
					Pro-113 to Ile-129,	S0284: 2		
	887805	2651	1-824	5230	1)1 101 to OIII-10/.			
TIACOTIES	00000	177	120 - C	0220	1			
HAUSHSS	952580	14	2 - 355	2/01	Pro-17 to Glu-28,	L0770: 3, H0686: 1,		
	•				Gly-86 to Ser-92.	H0634: 1, L0761: 1,		-
						L0772: 1, L0764: 1,		
						L0805: 1, L0786: 1 and		-
						L0779: 1.		
HAQAK73 764671	764671	15	449 - 661	2702	Glu-16 to Pro-21,	H0295: 2 and L0748:		
					Glu-39 to Ser-56,	i		
					Glu-59 to Gly-67.			
HAQAM17	664979	16	1 - 198	2703		H0295: 1 and H0435:		
HAQBF84	783259	17	2 - 70	2704		H0295: 2		
HAQBJ71	839982	18	17 - 367	2705	Ala-55 to Phe-72.	H0295: 3 and H0294:		
HAQBQ50	522004	19	3 - 59	2706		H0295: 2		

			_	_	_						1		_					_							_
																		•				104770,	107670,	110700,	135940,
							••••												_			1921			
H0295: 2, L0649: 1, L0663: 1, H0435: 1 and H0670: 1.	H0294: 2 and H0435:	H0294: 2	H0664: 2	H0663: 1 and S0152: 1.	H0663: 2	H0663: 2, L0758: 2,	L0748: 1 and L0591: 1.	L0749: 2, H0663: 1,	H0662: 1 and L0438: 1.	H0181: 2	H0181: 1 and H0617:	1.	H0662: 2, H0181: 2,	L0766: 2, L0455: 1,	L0740: 1, L0779: 1 and	L0362: 1.	H0553: 2, H0181: 2,	L0743: 2, L0639: 1,	L0787: 1, L0790: 1,	L0747: 1, L0780: 1.	L0752: 1 and L0755: 1.	H0181: 2			
			Val-17 to Thr-27.		Arg-1 to Trp-15.	Glu-24 to Lys-29,	Lys-35 to Gln-40.	Gly-1 to Gly-6,	Gly-41 to Pro-46.	Asn-37 to Gly-44.	Pro-31 to Glu-36.											Val-57 to Leu-66,	Val-79 to Gly-84.		
2707	2708	2709	2710	2711	2712	2713		2714		2715	2716		2717				2718					2719			
159 - 437	3 - 134	209 - 337	228 - 374	15 - 140	138 - 1	3-317		390 - 575		3 - 185	2 - 184		1 - 420				1 - 195					1 - 324			
20	21	22	23	24	25	56		27		28	29		30				31					32			
847519	529711	688336	92826	963634	922401	951787		930682		525846	957870		952396				524532					954299			
HAQBS37 847519	HAUBD69	HAUBU10		HBCPD14		HBCQS90		HBCQS93		HBGBD28	HBGBF56		HBGBG42				HBGBH43			-	_	HBGBS07			

145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,	191315,	230800,	230800,	266200,	,168009	601105,	601412,	601652,	602491								-		
	,									•									H0181: 2	H0617: 2 and H0181:	110101 0 1110//1	100101: 2 and H0017:	H0181.2	H0181.2	H0181: 1 and H0617	1,	H0181: 3	L0040: 1, H0188: 1,
	-				•														Arg-7 to Trp-17.		Gli, 1 to Cl.: 0	O14-1 to O1y-7.	Thr-1 to Pro-6.	Pro-6 to Leu-12			Trp-8 to Gln-20.	Gln-19 to Glu-24,
																			2720	2721	2722	77 77	2723	2724	2725		2726	2727
																			109 - 306	52 - 492	31 - 156		163 - 507	1 - 132	122 - 259		2 - 220	3 - 302
																		į	33	34	35		36	37	38		39	40
																		0,0,0,	25552	954916	524956		525618	524875	9411696		974223	954306
			-															OFFIGURE OF THE OFFI		HBGBW60	HBGBW72		HBGDA44	HBGDE85	HBGDS13	\neg	7	HBGFA62

		·																											
H0606: 1, L0762: 1,	L0803: 1, L0774: 1 and	L0509: 1.	H0617: 2		H0617: 3	L0764: 2, L0783: 2,	H0182: 1, H0617: 1,	H0616: 1, L0765: 1,	L0375: 1, L0659: 1,	L0809: 1, L0663: 1,	L0731: 1 and L0361: 1.	H0617: 2	AR089: 15, AR061: 10	H0617: 8, L0763: 2,	L0754: 2, H0483: 1 and	L0743: 1.		H0617: 2	H0617: 2, L0758: 2,	H0181: 1, L0521: 1,	L0666: 1 and L0779: 1.				H0617: 3				
Arg-29 to Pro-35,	Ser-47 to Ser-56,	Pro-58 to Ser-64.	Thr-1 to Ser-6,	Thr-23 to Pro-30.	Leu-36 to Asn-42.	Pro-13 to Ser-19,	Pro-60 to Ala-76,	Asp-78 to Gly-85.				Arg-71 to Arg-76.	Arg-37 to Phe-48,	Asp-55 to Asp-63,	Gly-73 to Ala-80,	Gln-147 to Trp-154,	Val-176 to Lys-191.		Gly-1 to Arg-8,	Gly-17 to Val-25,	Gln-27 to Gln-32,	Ala-56 to Gly-64,	Glu-121 to Thr-129,	Arg-156 to Asp-174.	Gly-3 to Thr-15,	Pro-49 to Ser-54,	Pro-56 to His-63,	Gly-81 to Pro-87,	Pro-92 to Thr-98.
			2728		2729	2730						2731	2732					2733	2734						2735				
			266 - 589		84 - 329	162 - 434						22 - 279	575 - 3					82 - 162	1 - 522						1 - 330			- 11-	
			41		42	43						44	45					46	47						48				
			870189		933763	966132						845194	947112					958257	848219						914594	-			
			HBGMD05		HBGMD62	HBGMF10							HBGMZ39					HBGNA08	HBGND09						HBGN114				

																								_				
H0617: 2	H0181: 1 and H0617:	1.			AR054: 129, AR051:	118, AR050: 110	H0617: 4 and L0770:	2.		H0617: 2, H0663: 1	and H0181: 1.	H0617: 2, L0439: 2,	L0771: 1, L0766: 1,	L0779: 1 and L0752: 1.			H0617: 2		H0617: 2	L0041: 2, H0617: 2,	L0659: 1, L0438: 1 and	L0601: 1.	H0617: 2		H0617: 2, L0780: 1,	L0752: 1 and L0594: 1.	H0617: 4	H0617: 3
	Glu-14 to Cys-20,	Glu-22 to His-32,	Asp-39 to Thr-52,	Lys-92 to Asp-101.	Cys-7 to Gly-12,	Ser-19 to Thr-26,	Ala-31 to Leu-36,	Ser-47 to Ser-57,	Glu-75 to Phe-83.	Gly-58 to Pro-69.		Thr-21 to Lys-27,	Cys-33 to Pro-38,	Lys-68 to Trp-103,	Pro-118 to Val-124,	Pro-129 to Lys-137.	Leu-30 to Thr-56,	Arg-61 to Thr-71.					Gly-22 to Ala-31,	Arg-58 to Trp-73.	Leu-14 to Pro-20,	Ser-49 to Ile-55.		Pro-13 to Arg-26.
2736	2737				2738					2739		2740					2741		2742	2743			2744		2745		2746	2747
12 - 197	2 - 358				2 - 268					24 - 263		10 - 420					195 - 599		3 - 278	1 - 369			1 - 219		158 - 340		14 - 274	2 - 205
49	20				51					52		23					54		55	26			27		28		59	09
912730	952212				887152					968696		883111					967261		848156	958290			926876		918513		973425	930706
HBGNM13	HBGN007				HBGNQ31					HBGNW29		HBGOB07					HBGOJ28		HBGOK53	HBGOL08			HBGPE04		HBGPH02		HBGPK33	HBGPV05

																		191170, 191170								
																		17p13.1								
H0181: 1 and H0617:	L0777: 3, H0617: 2,	L0731: 2, H0606: 1,	L0769: 1, L0803: 1,	L0743: 1, L0744: 1,	L0750: 1 and L0779: 1.			H0617: 3	L0794: 3, H0617: 2,	L0750: 1 and L0758: 1.	AR051: 23, AR050:	17, AR054: 16	H0617: 4					H0253: 1 and H0188: 1.	H0618: 1 and H0188:	H0188: 2	H0188: 2		H0188: 2	H0188: 2	H0188: 2 and L0603:	1.
Met-3 to Asn-8,	Arg-4 to His-10,	Pro-14 to Thr-20,	Glu-28 to Arg-35,	Thr-40 to Ser-56,	Thr-61 to Ser-75,	Pro-93 to Arg-102,	Asp-118 to Arg-124.	Pro-70 to Arg-78.	Pro-28 to Trp-34.		Asp-43 to Arg-49,	Glu-55 to Asp-64,	Glu-75 to Arg-81,	Leu-89 to Gly-98,	Leu-110 to Lys-115,	Asn-131 to Thr-141,	rsit-122 to Lys-100.	Ser-8 to Leu-20.			Asn-3 to Ser-15,	Lys-21 to Asn-30.	Gly-21 to Pro-27.		Leu-14 to Thr-20.	-
2748	2749							2750	2751		2752							2753	2754	2755	2756		2757	2758	2759.	
1 - 309	3 - 413							1 - 273	13 - 561		3 - 581							1 - 138	86 - 271	1-231	123 - 302		2 - 226	1 - 87	245 - 400	
61	62							63	64		65							. 99	29	89	69		70	71	72	
954302	923142							965509	914573		886529						702770	966536	008099	655514	655842		524954	530843	558193	
HBGQG66 954302	HBGSD40							HBGTK11	HBGTL01		HBGTR84						.04	HBNAB01	HBNAF14	HBNAI71	HBNAN41		HBNAW92	HBNAX71	HBNAY58	

						2123620,	138720,	145410,	231950	239500,	275350,	00000													
						22q11.2-q13.				-															
H0188: 2	S0188: 2		S0190: 2	S0190: 2	S0190: 2	H0059: 1 and S0190: 1.22q11.2-q13.2 123620,						H0661: 1 and H0553:	I. H0661.2	110001.2	L0770: 3, L0776: 3, H0686: 1, H0661: 1,	L0021: 1, L0761: 1,	L0766: 1, L0659: 1,	L0647: 1, L0752: 1 and	L0605: 1.	H0661: 2	S0398: 2	S0398: 2	S0398: 2		L0758: 13, H0253: 4,
Gln-48 to Pro-56.	Phe-13 to Phe-18,	Gly-23 to Arg-38.	Ser-1 to Ser-11.	Thr-29 to Arg-34.		Val-3 to Lys-9.						Ser-1 to Met-6.			Lys-28 to Phe-34.					Lys-33 to Arg-38.			Thr-6 to Leu-12,	Tyr-19 to Lys-28.	Ser-10 to Gly-23.
2760	19/2		792	2763	2764	2765						2766	73767		2768					2769	2770	2771	2772		2773
201 - 380	1 - 330		93 - 212	116 - 301	2 - 352	111 - 383						322 - 119	183 - 521		8 - 130					2 - 283	3 - 125	2 - 181	22 - 120		2 - 901
73	74		75	9/	77	78						79	80		81					82	83	84	85		98
524869	692559		625619	760418	655737	664013						914333	950897	0000	951820					922351	915613	835781	726339		915239
HBNBT52	HBZAJ09				HBZSI73	HBZSK17						HCBMV01	HCBNW02		HCBNW07								HCDMB60		HCDMC01

					300077,	300500,	300650,	301200,	302350,	308700,	311200, 312040														
		13			Xp22.3	•								13											
H0618: 3, H0038: 1,	S0398: 2	H0483: 2	H0483: 2		H0483: 2							H0483: 1 and H0550:	1.	H0483: 4 and H0484:	I.	H0484: 2	H0616: 7, L0758: 5,	H0484: 1, H0040: 1,	L0768: 1, L0774: 1 and	L0775: 1.	H0484: 2			H0484: 1 and H0483:	1.
		Lys-29 to Arg-34.	Cys-1 to Pro-10,	Thr-19 to Glu-28, Arg-36 to Asn-44.	Ser-24 to Gly-29,	Asn-47 to Pro-53,	Pro-74 to Gly-79.					Phe-24 to Gln-30,	Gln-32 to Leu-42.	Asp-1 to Phe-21.			Glu-14 to Ser-21,	Asp-67 to Asp-73.			Leu-26 to Cys-39,	Cys-41 to Lys-50,	Gly-87 to Glu-93.	Glu-11 to Gly-17,	Arg-25 to Ser-36.
	2774	2775	2776		2777						•	2778		2779	0000	2700	2781				2782			2783	
	2 - 184	78 - 269	3 - 134		1 - 366							1 - 318		190 - 459	75 247	33 - 343	144 - 455				1 - 321			2 - 214	
	87	88	68		96							91		92	60	2	4				95			96	
	662929	923764	675465		715128							665184		923763	660610	000010	586088				740102			954866	
	HCDMD23	HCHAD40	HCHAR16		HCHAR43							HCHAR67		нснвооз	HCUNG 32	TYCHENDA	HCHND96				HCHOA76			нснор89	

																	-		-								
						•						•															
H0484: 1 and H0483:	H0484: 2, L0803: 1	and LU/58: 1.			AR089: 42, AR061: 34	H0651: 154, L0731: 9,	L0777: 6, L0803: 4,	L0775: 3, H0196: 2,	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,
Gly-1 to Gly-14.	Pro-13 to Gly-20,	Ser-29 to Ala-43,	Ser-00 to Ata- / 2,	Pro-102 to Arg-107.	Ala-2 to Lys-10,	Glu-70 to Gln-76.																					
2784	2785				2786																						
1 - 129	3 - 455		•		522 - 896																						
97	86				66																						
717671	934941				927904																		-				
HCHPO55 717671	нсновое				HCMSE07																			-			

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							•			2103050.	103050,	124030,	124030,	138981,	182380,	188826,	190040,	190040,	190040
								•		22q13.1-q13.2 103050.	•			•					-
L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0439: 1, L0779: 1, L0594: 1, L0361: 1, S0026: 1, S0242: 1 and S0460: 1.	L0768: 2, H0150: 1 and H0670: 1.	H0670: 2	H0670: 2	H0670: 2	H0059: 1, L0803: 1	and H0670: 1.				AR089: 15, AR061: 5	H0662: 2, H0670: 1,	L0756: 1 and L0759: 1.							
	Arg-1 to Pro-10, Ile-21 to Gly-34.	Tyr-10 to Cys-17.	Ser-40 to Gly-45, Pro-55 to Asp-67.	·	Val-19 to Trp-24,	Lys-70 to Lys-78,	Ser-63 to Leu-100,	Val-112 to 1rp-117,	Thr-119 to Lys-125, Cys-133 to Pro-143.	Asp-43 to Glu-48.									
	2787	2788	2789	2790	2791					2792									
	120 - 296	68 - 3	75 - 458	83 - 283	1 - 471					89 - 592			_		,				
s.	100	101	102	103	104					105								•	
	932878	925748	951665	191696	961595					965306									
	HCOMZ41		j	HCOOM77	HCOOX10 961595					HC00Z11									

		-																	-									
																										•		
H0169: 2, L0809: 1,	H06/0: 1 and L0599: 1.	H06/0: 4, L07/6: 2, L0666: 2. L0759: 2	H0661: 1, L0717: 1,	L0664: 1, L0779: 1,	L0777: 1, L0752: 1 and	L0755: 1.	H0670: 2 and L0366:		H0670: 2	H0683: 122, L0740: 6,	L0747: 5, L0438: 4,	L0439: 4, L0756: 3,	H0156: 2, L0521: 2,	H0658: 2, L0754: 2,	L0750: 2, L0779: 2,	L0777: 2, L0731: 2,	L0759: 2, H0171: 1,	H0486: 1, H0244: 1,	H0427: 1, H0310: 1,	H0052: 1, H0263: 1,	H0596: 1, L0163: 1,	H0051: 1, H0328: 1,	S0112: 1, L0768: 1,	L0803: 1, L0774: 1,	L0527: 1, L0517: 1,	L0783: 1, L0666: 1,	L0663: 1, H0670: 1,	H0648: 1, S0152: 1,
Gly-11 to Ser-16.	70 to T 26	Asp-73 to Ser-79.					Ala-52 to Lys-58,	Gly-72 to Arg-79.		Glu-40 to Asn-46.																		
2793	2704	7617					2795		2796	2797																		
259 - 585	100	403 - 004					292 - 564		187 - 429	1335 - 1553																		
106	107	10					108		109	110																		
954332	065200	202523					969151		951658	961388																		
HCOPP18 954332	HCOOR11	112>0011					HC0QH12		- 1	HE8SG46				-		-												

S0146: 1, H0478: 1, L0752: 1, L0758: 1 and S0412: 1	AR061: 8, AR089: 5 H0038: 4, H0616: 3	L0747: 3, L0663: 2,	L0758: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0369: 2	H0369: 2 and H0664:	1.	H0369: 2	H0369: 1 and H0040:	1.	H0369: 2	H0369: 2	L0748: 3, H0369: 1	and H0031: 1.	H0369: 2	H0369: 2	H0369: 2 and L0747:	-	H0534: 4 and H0533:	3.	H0549: 2
									Glu-7 to Arg-24.	His-33 to Val-39.							Phe-71 to Gln-78,	Lys-87 to His-95.	Gly-12 to Ile-18.		Asp-25 to Glu-30,	Leu-39 to Val-48.	Ser-5 to Tyr-19,	Arg-22 to Thr-32.	Glu-21 to Lys-30,
	2798								2799	2800		2801	2802		2803	2804	2805		2806	2807	2808		2809		2810
	3 - 272								1 - 360	69 - 188		114 - 221	2 - 154		78 - 227	168 - 401	114 - 488		121 - 471	99 - 236	219 - 449		1 - 147		1 - 159
	111								112	113		114	115		116	117	118		119	120	121		122		123
	963100								574510	574232		574008	960579		932383	653242	531348		733632	968200	574508		752875		741305
	HEAAA42									HEAAK46			HEAAM52		HEAAN18	- 1	HEAAT36		HEAAT60	HEAAV10	HEAAV33	\neg	HEDAE67	\neg	HEEAD64

	H0549: 2	H0549: 2			AR054: 10, AR051: 9,	H0549: 2	H0549: 2	H0549: 2	H0369: 2 and H0549:	2.	H0549: 2	H0549: 2	H0549: 2 and L0600:	1.	H0549: 2	H0549: 2	H0550: 2		H0550: 2	AR089: 13, AR061: 8	H0618: 2 and H0550:	H0550: 2 and L0750:	1.	H0550: 1 and H0328:	1. H0550: 1, H0644: 1
Gly-33 to Ser-39.	Pro-44 to Phe-50.	Lys-25 to Gly-34,	Pro-42 to Trp-57,	Lys-71 to Asp-82.			Gly-24 to Leu-30.	Glu-12 to Gln-19.	Val-19 to Ser-25,	Arg-39 to Ser-60.		Ala-76 to Gly-84.	Ala-17 to Gly-30,	Arg-39 to Trp-46.	Lys-12 to Trp-17.	Phe-27 to Trp-32.	Gly-1 to Glu-10,	Gly-41 to Val-47.	Ser-52 to Trp-58.	Ile-30 to Gly-36,	Thr-67 to Thr-72.	Ser-48 to Lys-54.			Ala-51 to Glu-60,
	2811	2812			2813		2814	2815	2816		2817	2818	2819		2820	2821	2822		2823	2824		2825		2826	2827
	1 - 150	246 - 1			3 - 332		140 - 253	167 - 283	3 - 203		1 - 147	3 - 278	1 - 228		55 - 195	28 - 168	1 - 204		150 - 425	1 - 351		281 - 475		113 - 355	1 - 330
	124	125			126		127	128	129		130	131	132		133	134	135		136	137		138		139	140
	851219	785121			887321		673904	780838	887312		676721	735620	266907		851213	656299	676716		767284	823900		754344		965183	955291
	HEEAH07	HEEAJ58			HEEAJ76		HEEAK22	HEEAK84	HEEAL31		HEEAN24		HEEAU79		HEEAW01	HEEAW13	HEGAA24		HEGAA73	HEGAB84		HEGAC69		HEGAC95	HEGAI82

and L0659: 1.	AR054: 16, AR051: 5,	AR050: 3	H0550: 2 and L0749:	1.	AR089: 9, AR061: 7	H0550: 1 and H0253:	1. TOME 4 TOME 6	L0754: 4, L0776: 2,	L0743: 2, L0750: 2,	L0779: 2, H0550: 1,	L0769: 1 and H0658: 1.	H0550: 2					H0550: 2	H0550: 1, H0212: 1,	L0745: 1 and L0746: 1.	H0550: 2			H0550: 2		AR050: 66, AR054:	55, AR051: 37, AR089:	11, AR061: 6	H0549: 1 and H0550:	
Pro-88 to Ser-104.	Ala-29 to Lys-51,	Arg-69 to His-75.			Lys-1 to Ser-52.		A 4 4- 4 10	Asn-4 to Asn-10,	Gly-14 to Asp-21,	Leu-26 to Gly-39.		Gly-1 to Gly-10,	Glu-46 to Ser-52,	Pro-61 to Pro-67,	Arg-69 to Asp-75,	Ser-82 to Ser-87.	Tyr-36 to Thr-41.	Val-1 to Leu-6,	Arg-13 to Phe-18.	Leu-22 to Ser-28,	Lys-36 to Lys-43,	His-56 to Pro-65.	His-32 to Trp-37,	Pro-39 to Thr-53.	Leu-45 to Lys-50,	Gln-55 to Glu-74,	Thr-114 to Ile-119.		
	2828				2829		0000	7830				2831					2832	2833		2834			2835		2836				
	54 - 305				3 - 326		7 754	3 - 254			7.	59 - 319					117 - 239	462 - 644		1 - 195			1 - 204		12 - 560				
	141				142		1/12	143				144					145	146		147			148		149				
	887299		_		780837	_	027705	07466	•			697419					706951	719387		906669			726316		950033				1
	HEGAK04	-			HEGAO83		TEGADOK	nedarw				HEGAP31					HEGAP36	HEGAR53		HEGAY32			HEGAY52		HEGAZ61				

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		155555,	155555,	253000,	002/00		120215, 120215,	1190198									1	147200,	178640,	216900		
		16q24.3		_			9q34.2-q34.3											2p12				
H0150: 2	H0150: 2	AR050: 154, AR051:	146, AK054: 141 H0150: 3		H0150: 2	H0150: 3 and L0763:	H0150: 2		H0150: 2			H0549: 1, H0150: 1,	L0761: 1 and L0764: 1.	H0150: 2		L0758: 3, H0150: 2,		H0150: 2			H0150: 2	H0150: 2, L0369: 1
Ala-6 to Gln-12.	Ser-7 to Asp-20, Thr-30 to Phe-41, Gly-55 to Gly-61.		Fro-38 to Asn-30.			Ile-14 to Leu-22.	His-1 to Thr-9.		Asn-1 to Lys-7,	Leu-27 to His-32,	Arg-34 to Pro-30.	Pro-4 to Arg-13,	Val-34 to Asp-40.	Ser-9 to Leu-20,	Inr-38 to Inr-44.	Leu-13 to Lys-21.						
2837	2838	2839			2840	2841	2842		2843			2844		2845		2846	2047	7 4 97			2848	2849
91 - 204	90 - 353	3 - 176	,		132 - 257	3 - 113	1 - 75		73 - 309			284 - 583		2 - 154		250 - 360	2 167	7 - 10/			105 - 284	3 - 260
150	151	152			153	154	155		156			157		158		159	160	001			161	. 162
509456	557149	888726			509002	509452	586843		518331			925146		908809		508694	026014	720214			968771	884083
HEPAA44	HEPAB70	HEPAD09			HEPAD40	HEPAD82	HEPAJ70		HEPAK01			HEPAK41		HEPAM29		HEPAN19	HEDADA	TIEL PILOT			HEPAP12	HEPAS44

																									-		
and L0532: 1.	AR061: 44, AR089: 13	H0150: 10, H0549: 5,	no1/6: 1, L0/90: 1 and	LU//9. 1.	H0150: 3	H0150: 4	H0150: 2	H0150: 2 and L0717:		H0150: 2, L0809: 1,	L0731: 1 and L0758: 1.	H0150: 2	H0150: 3	H0150: 5	H0150: 2	AR050: 7, AR054: 1	H0150: 3	H0150: 2	H0549: 2 and H0150:	2.	H0150: 2 and H0165:	H0150.2	H0150: 2	AR051: 15. AR054: 2.	AR050: 0	H0150: 4, H0038: 3,	L0758: 3 and L0779: 2.
	His-1 to Met-10.							Asp-15 to Gly-21,	Gln-32 to Lys-45.	Glu-7 to Gln-12.					Pro-4 to Ser-12.	His-25 to Ile-31.		Ala-1 to Asp-7.	Pro-12 to Gly-22.		Asp-18 to Thr-28.			Ser-20 to Lys-30,	Ala-43 to Ser-48,	Ser-65 to Thr-72,	Thr-112 to Thr-118,
	2850				2851	2852	2853	2854		2855		2856	2857	2858	2859	2860		2861	2862		2863	2864	2865	2866			
	3-518			3,	42 - 179	72 - 323	4 - 204	92 - 259		171 - 290		99 - 257	193 - 312	112 - 216	91 - 291	272 - 460		123 - 296	2 - 445		37 - 297	2 - 121	19-117	227 - 685			
	163			12.	104	165	166	167		168		169	170	171	172	173		174	175		176	177	178	179			
	919875			20000	208084	855597	967921	208686		508673		707524	508696	888697	713836	888693		968665	715685		523670	529343	761094	947081			
	HEPBA39			rrendari	HEPBB24	HEPBB60	HEPBG26	HEPBG35		HEPBH28		HEPBH38	HEPBH45		HEPBQ47	нерво69		HEPBS10	HEPBX43		HEPCD36	HEPCE25	HEPCO59	HEPCT32			

					108962,	120940,	217050,	217070,	245050,	600837,	600946,	600946,	000040					
					5p13								7					
	AR051: 9, AR054: 8, AR050: 1, AR061: 0, AR089: 0	H0150: 2, H0270: 1, H0032: 1, H0212: 1 and L0779: 1.		AR089: 1, AR061: 0 H0544: 1 and H0435: 1.	H0544: 1 and H0038:								H0544: 2			H0544: 2 and L0748:	2.	H0544: 1 and H0038: 1.
Ala-139 to Arg-147.	Arg-57 to Arg-64, Arg-106 to Arg-116, Gln-128 to Pro-135.		Arg-57 to Arg-64, Arg-106 to Arg-116, Gln-128 to Pro-135.	Pro-11 to Gly-16, Gln-37 to Gln-43.						•			Ser-3 to Phe-65,	Glu-78 to Ala-91,	Ala-95 to Ser-116.			Pro-1 to Glu-15, Pro-29 to Val-35.
	2867		5339	2868	2869								2870			2871		2872
	448 - 975		345 - 872	2 - 160	1 - 186								86 - 436			10 - 180		80 - 529
	180		2652	181	182								183			184		185
	931824		946975	911438	069669								769973			727051		712243
	HEPCU32			HEQAE65	HEQAH70							,	HEQA076			HEQAZ52		HEQBA41

H0046: 2	H0046: 3	H0046: 2 and L0748:	2.	H0046: 2	H0046: 3				H0046: 6	H0046: 4	H0046: 2	H0046: 2	H0046: 4	H0046: 3	H0046: 5			H0046: 3		H0046: 3	H0046: 58 and H0616:	1.	H0046: 1 and S0004: 1.	H0046: 2	H0046: 2	H0046: 3		H0046: 2 and L0741:
Asn-13 to Cys-19.	Pro-22 to Gln-32.	Lys-1 to Val-24,	Val-27 to Leu-32.		Asn-1 to Gly-13,	Val-23 to Ser-28,	Ala-52 to Thr-63,	Asp-75 to Thr-80.	Lys-14 to Pro-22.		Ser-20 to Pro-25.			Gln-15 to Ser-21.	Pro-13 to Gln-22,	Arg-24 to Cys-30,	Thr-35 to Lys-40.	Ile-18 to Gln-23,	Ser-36 to Ser-41.				Arg-35 to Glu-40.			Asp-11 to Gln-18,	Pro-38 to Ser-43.	Phe-1 to Ser-6,
2873	2874	2875		2876	2877				8282	6287	2880	2881	2882	2883	2884			2885		2886	2887		2888	2889	2890	2891		2892
3 - 89	61 - 273	63 - 362		3 - 248	1 - 348				161 - 364	128 - 226	3 - 164	3 - 290	2 - 202	162 - 305	17 - 136			2 - 313		1 - 162	634 - 801		156 - 275	33 - 203	1 - 138	81 - 257		3-311
186	187	188		189	190				191	192	193	194	195	196	197			198		199	200		201	202	203	204		205
509311	509308	203306		509300	942612				799665	535390	508994	518156	535359	509118	960392			68839		934444	918730		536192	509189	59805	720853		509099
HETAD29	HETAF20	HETAF49		HETAF89	HETAH16				HETAH66	HETAH67	HETAJ26	HETAK75	HETAN20	HETAP59	HETAP94			HETAR06		HETAR60	HETAT83		HETAZ13	HETBA01	HETBF45	HETBH48		HETBR25

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													-								123620,	138720,	145410,	231950,	239500,	275350,	600850
																					22q11.2	•					
1.		H0046: 2		H0046: 5, L0748: 2	U0046: 2 and I 0740.	n0040: 3 and L0/46: 1.	H0046: 68, S0013: 2,	H0369: 1, H0431: 1,	H0013: 1, H0156: 1 and	S0014: 1.					H0046: 2	H0046: 2	H0046: 2 and H0648:	1.	H0046: 3	H0046: 1 and H0615: 1.	H0046: 3 and L0617:	1.					
Arg-26 to Lys-31,	Arg-54 to Ser-59.	Thr-3 to Thr-9,	Ala-24 to Cys-29.			Gly-20 to Gly-27.				Asp-88 to Tyr-101,	^	Thr-136 to Thr-145,	Thr-158 to Cys-171,	Ser-183 to Pro-188.		Ala-32 to Pro-57.	Thr-56 to Pro-62,	Asp-76 to Gly-81.	His-3 to Asn-10.	Lys-25 to Asn-35.	Tyr-1 to Ala-9.						
		2893		2894	2000	2093	2896								2897	2898	2899		2900	2901	2902						
		3 - 125		354 - 647	143 307	145 - 507	542 - 1249								121 - 204	31 - 201	119 - 361		149 - 283	107 - 364	54 - 398						
		206		207	900	200	500								210	211	212		213	214	215						
		523046		971505	277005	200000	841924								921390	522829	525412		509110	883018	855509						
		HETBW39		HETCE12	UETCESS	nercess	HETCG63	·							HETCH92	HETCLSS	HETDA81		HETDD18	HETDE67	HETDE86						

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											300123,	301201,	301845,	301900,	304340,	307150,	307700,	308000,	308000,	309000,	310490.	313850				
											Xq26.1															
H0046: 10 and S0152: 1.	H0046: 2	H0046: 2	H0046: 2	H0031: 2 and H0046:	1.	H0046: 2 and L0756:		H0046: 2	H0046: 9	H0046: 5	H0046: 2				-	4							H0046: 3			H0046: 5 and L0665: 1.
	Asn-1 to Arg-14.		Leu-1 to Ser-6.						His-7 to Thr-22.	Arg-1 to Ile-29.	Asn-8 to Trp-15,	Leu-20 to Ser-32.											Asn-1 to Asp-10,	Asp-25 to Gly-30,	Asp-45 to Asp-56.	
2903	2904	2905	2906	2907		2908		2909	2910	2911	2912												2913			2914
446 - 652	1 - 159	146 - 274	131 - 235	116 - 295		191 - 397	,	180 - 281	39 - 248	1 - 273	189 - 359												195 - 476			1 - 543
216	217	218	219	220		221		222	223	224	225												226			227
028096	925489	066805	695021	525407		660714		827093	917400	952297	529591												523112			799658
HETDG67 960870	HETDI03	HETDL92	HETDN90	HETDP21		HETDT15		HETDW59	HETEB68	HETEQ16	HETEZ43												HETFA40			HETFC82

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H0046: 14	H0046: 3, H0618: 1,	H0038: 1 and H0616: 1.				H0046: 53, H0616: 1	and L0664: 1.										H0046: 2	H0046: 2	H0046: 9			H0046: 2	H0046: 2	H0046: 2 and L0771:	.	AR050: 47, AR051:	46, AR054: 39, AR089:	4, AR061: 2	H0046: 4
	Ala-22 to Tyr-27,	Val-58 to Arg-75,	Ala-82 to Gly-88,	Pro-97 to Gln-102,	Val-109 to Asp-117.	Arg-1 to Lys-6,	Glu-8 to Ser-15,	Leu-17 to Leu-24,	Gln-26 to Gln-46,	Ala-58 to Gln-63,	Gln-68 to Leu-74,	Lys-82 to Arg-95,	Glu-101 to Pro-107,	Leu-139 to Lys-147,	Glu-176 to Leu-186,	Arg-208 to Ile-215.		Gin-42 to Gly-48.	Lys-6 to His-12,	Gly-20 to Gly-40,	Gly-55 to Glu-69.	Asn-9 to Gly-17.	Gly-6 to Asn-21.						
2915	2916					2917											2918	2919	2920			2921	2922	2923		2924			
283 - 510	275 - 643					430 - 1149											66 - 239	208 - 405	88 - 339		·	2 - 127	1 - 63	2 - 154		3 - 581			
228	229			·		230											231	232	233			234	235	236		237			
974351	795274					954104											523398	973697	973702			527929	505383	523372		947978			
HETFE48	HETFG29					HETFI24											HETF181	HETFL39	HETFM43			HETGH30	HETGI40	HETGL62		HETGL74			

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H0046: 2 and L0519: 2.	H0046: 2	H0046: 2	H0046: 9				H0046: 4	H0046: 4	H0046: 1, H0032: 1	and L0740: 1.	H0046: 5	AR089: 1, AR061: 0	H0046: 2			H0046: 3	H0046: 3	H0046: 3	H0046: 14		H0046: 2	H0046: 2	H0046: 3	H0046: 2	H0046: 18	H0046: 5 and L0766:	1.
	Pro-4 to Lys-11.		Arg-1 to Pro-7,	Pro-13 to Ser-18,	Ala-51 to Ser-64,	Asn-92 to Lys-97.					Ser-12 to Val-20.	Pro-1 to Arg-7,	Thr-18 to Thr-29,	Arg-35 to Ser-50,	His-87 to Cys-92.			Ser-3 to Pro-10.	Ala-60 to Lys-67,	Gln-71 to Gly-76.	Glu-7 to Glu-12.	Ile-3 to His-12.		Arg-16 to Asn-21.	Pro-49 to Thr-57.	Pro-14 to Pro-19,	Cys-35 to Ser-40.
2925	2926	2927	2928				2929	2930	2931		2932	2933				2934	2935	2936	2937		2938	2939	2940	2941	2942	2943	
7-567	23 - 190	11 - 109	151 - 441				101 - 259	490 - 639	90 - 428		475 - 660	24 - 461				302 - 439	47 - 223	262 - 411	1 - 363		1 - 135	81 - 245	458 - 646	62 - 166	252 - 503	3-215	
238	239	240	241				242	243	244		245	246				247	248	249	250		251	252	253	254	255	256	
927789	542486	969632	935175				974348	181134	745503		963592	851412				974555	966185	974359	766589		883991	764951	739804	935947	974558	909130	
HETGN20 927789	HETGQ76	HETGS09	HETHD30				HETHE56	HETHH49	HETHO63		HETHO78	HETHR24				HETHT53	HETIF01	HETIG71	HETIJ84		HETI185	HETIQ89	HETIU60	HETIY84	HETJD30	HETJD86	

																		17									
AR061: 4, AR089: 2	H0046: 2 and H0616:	1.	L0375: 3, H0046: 2,	L0774: 1 and L0789: 1.	H0046: 2	H0046: 2	H0046: 3	AR089: 4, AR061: 2	H0046: 1, H0032: 1,	H0040: 1 and L0565: 1.				H0046: 4 and L0774:	H0046: 3 and H0616:	1.		H0046: 11	H0046: 3	H0046: 2			H0046: 17		H0046: 3		
Val-10 to Asp-15.					Ser-1 to Thr-7.		Lys-8 to Thr-23.	Asp-11 to Val-21,	Pro-27 to Thr-43,	Trp-92 to Lys-97,	Pro-136 to Gly-149,	Met-182 to Val-193,	Thr-197 to Asn-203.		Val-50 to Arg-63,	Asp-75 to Trp-89,	Pro-92 to Arg-98.			Pro-1 to Gly-14,	Gly-17 to Ser-23,	Ser-25 to Arg-34.	Ser-12 to Arg-18,	Gln-69 to Met-74.	Leu-33 to His-38,	Pro-56 to Glu-61,	Pro-111 to Leu-117.
2944			2945		2946	2947	2948	5949						2950	2951			2952	2953	2954			2955		2956		
94 - 462			262 - 552		173 - 433	26 - 274	222 - 413	3 - 704						254 - 481	3 - 308			321 - 527	20 - 226	1 - 210			31 - 267		3 - 353		
257			258		259	260	261	262						263	264			265	266	267			268		569	•	
950017			806435		751072	767932	789310	927120						966194	894600			974355	915320	790910	•		974362		855449		
HETJG63			HETJI32		HETJK67	HETJN51	HETJT95	HETJX04			_			HETJY11	HETKA38		į	HETKG67	HETKH01	HETKH92		•	HETKM55		HETKQ65		

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AR061: 1, AR089: 0	H0046: 2	H0046: 2	H0046: 2	H0046: 6 and H0616:	1.	H0046: 2	H0046: 3			H0545: 2	H0545: 2	H0545: 2, L0766: 1,	L0775: 1, L0383: 1,	L0742: 1 and L0747: 1.	H0618: 6, L0758: 3,	H0484: 1, H0255: 1,	H0549: 1, H0253: 1,	H0616: 1, L0794: 1,	L0774: 1 and L0779: 1.	H0553: 2	H0553: 2, L0441: 1	and H0672: 1.	L0754: 20, L0748: 10,	L0749: 10, H0553: 8,	L0755: 8, H0031: 7,	H0644: 6, H0030: 2,	L0142: 1, L0771: 1,	L0759: 1 and H0008: 1.
Asp-12 to Trp-20.	T 27 4- 4 00	Leu-22 to Arg-28.	Gln-1 to Glu-20.	Glu-1 to Gly-6,	Val-21 to Asp-27.	Cys-22 to Asp-27.	His-1 to Leu-8,	Lys-10 to Leu-17,	Met-44 to Cys-49.			Asp-53 to Gln-59,	Asp-122 to Leu-128.		Arg-11 to Ser-19.					Tyr-23 to Ser-30.	Asn-34 to Leu-40.		Ser-84 to Ile-92,	Glu-104 to Gly-111.				
2957	0300	2938	2959	2960		2961	2962			2963	2964	2962			2966					2967	2968		5968					
2 - 664	150 051	150 - 254	3 - 620	518 - 1333		2 - 250	111 - 314			3 - 305	39 - 335	610 - 155			103 - 252					167 - 367	146 - 295		686 - 885					
270	271	1/7	717	273		274	275			276	277	278			279					280	281		282					
910030	7007007	103131	941045	920894		786458	974361			921079	919847	858254			675752	•				856552	958554		964389					
HETKV26 910030	UETVV01	Т		HETLB04			HETLM46			HJMAE34	HJMAZ84	HJMBT23			HLMNG77					HLWAB50	HLWAD08		HLWAG51					

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AR061: 2, AR089: 2 L0748: 6, L0752: 5, H0553: 2, L0754: 2, L0749: 1 and L0780: 1.		L0754: 2, H0553: 1, H0670: 1 and L0749: 1.	H0553: 2	H0553: 1, H0435: 1 and L0748: 1.	H0553: 2, L0536: 2, L0754: 2 and H0030: 1.	AR050: 21, AR054: 9,	AR051: 3, AR089: 1,	AR061: 1	H0553: 4 and L0759:	2.				H0553: 2, H0030: 1	and L0755: 1.		H0553: 2	H0553: 2	H0553: 2, L0005: 1,	L0143: 1, L0749: 1 and
Arg-9 to Val-17, Pro-25 to Gly-30.	Gly-1 to Ser-6, Phe-12 to Trp-25, Ala-31 to Gly-42, Met-44 to Gln-49.			Asn-12 to Ala-18, Gly-61 to Ser-70.		Gln-97 to Pro-114,	Trp-117 to Lys-129,	Thr-166 to Gln-173,	Ser-178 to Lys-183,	Glu-250 to Phe-256,	Ser-295 to His-301,	Tyr-307 to Gln-316,	Glu-322 to Ser-330.	Ser-20 to Gly-27,	Gln-29 to Arg-41,	Ser-46 to Pro-53.	Arg-112 to Ser-117.		Lys-28 to Arg-39.	
2970	5340	2971	2972	2973	2974	2975								2976			2977	2978	2979	
13 - 771	687 - 286	158 - 376	381 - 145	118 - 333	330 - 175	1287 - 292								430 - 2			4 - 390	192 - 350	1 - 192	
283	2653	284	285	286	287	288								586			290	291	292	
944774	948953	920690	746460	694216	715727	947484								723330			666273	962996	677944	
HLWAH41 944774	·	HLWAI13	HLWAJ64	HLWAK69	HLWAK94	HLWAR77								HLWAR78				HLWBA11	HLWBA25	

												·											
											W.L												
L0755: 1.	H0553: 2	H0030: 1 and H0553: 1.	H0553: 2	H0553: 3	L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1,	L0749: 1 and L0780: 1.	H0328: 2 and H0553:	-	AR089: 1, AR061: 0	H0553: 2	H0553: 3	H0328: 1 and H0553:	H0553: 2	H0030: 1, H0553: 1	and LU/54: 1.	H0031: 2, L0754: 2,	H0553: 1, L0743: 1,	L0748: 1 and L0747: 1.		-
	Val-2 to Pro-8, Arg-21 to Trp-29, Thr-41 to Arg-50.	Leu-6 to Gln-11, Arg-46 to Asp-52, Glu-68 to Pro-73	Ala-3 to Trp-10.		Arg-11 to His-20,	Pro-23 to Gly-31.				Gly-1 to Glu-6,	Val-8 to Tyr-16.	Lys-1 to Lys-41,	Pro-75 to Ser-86.	Met-36 to Lys-41.	Ala-37 to Glu-48.	Glu-57 to Gly-66.	Asn-7 to Cys-15.		Pro-26 to Ser-39,	lle-66 to Ser-78,	Lys-84 to Pro-105,	Pro-171 to Pro-181,	Arg-194 to Ala-199.
	2980	2981	2982	2983	2984					2985		2986		2987	2988	2989	2990		2991				
•	1 - 150	252 - 1	90 - 380	78 - 224	847 - 1062					119 - 199		3 - 263		109 - 279	272 - 48	2 - 268	184 - 2	0,0	114 - 848				
	293	294	295	296	297			•		298		299	ĺ	300	301	302	303		304			•	
	934562	791362	919639	711000	713600			•		529323		782938		703465	925300	774175	679215	00022	27.1929				
	HLWBE31	HLWBE92	HLWBJ02	HLWBK40	HLWBN49					HLWBO68		HLWBQ84		HLWBQ86	HLWBS14	HLWBS43	HLWBZ74	\neg	HLWCA67				

<u> </u>	ທີ່ຕິຕິຕ		` ^												
	116806, 168468, 182280, 190182,	190182, 227646, 261510,	600163, 601154												
	3p24-p22		,							_					
H0553: 2	H0553: 2			H0553: 2	H0553: 2 and L0754:	H0615: 3, H0553: 2, L0756: 2 and L0758: 2	H0553: 2, L0656: 1, L0659: 1, L0666: 1,	LU664: 1 and LU/48: 1. H0553: 2		H0553: 2, H0038: 1,	L0438: 1.			H0553: 2	H0553: 2
Ala-17 to Thr-24.				Gln-16 to Met-21, Val-25 to Lys-33, Ala-40 to Arc-46	Ser-11 to Gly-17.	Pro-10 to Lys-16.		He-31 to Ser-40,	Arg-115 to Gly-122.	Ser-21 to Glu-27, Gln-50 to Pro-59.	Gln-61 to Ser-66,	Thr-68 to Pro-74,	Pro-77 to Gln-84.		Tyr-8 to Arg-14, Asn-40 to His-46,
2992	2993			2994	2995	2996	2997	2998		2999	•			3000	3001
57 - 314	207 - 329			71 - 208	160 - 348	329 - 114	2 - 154	2 - 463		1 - 702				3 - 149	148 - 426
305	306			307	308	309	310	311		312				313	314
727699	926850			750779	002698	742778	768018	913768	0,000	790969				953283	868276
HLWCM44	HLWCM70 926850			9902MTH	HLWCQ53	HLWCQ62	нгмс076	HLWDA01	_	HLWDB18			-		HLWDE60

Г					-																				Τ		Γ		1
					_																								22q13.1-q13.2 103050,
	H0553: 2	H0553: 2	AR054: 2, AR051: 1,	AR089: 1, AR050: 1,	AR061: 0	H0651: 59, L0751: 5,	L0438: 4, L0774: 3,	L0439: 3, L0748: 2,	L0779: 2, L0752: 2,	L0755: 2, L0595: 2,	H0295: 1, H0009: 1,	T0010: 1, H0553: 1,	H0617: 1, H0163: 1,	H0102: 1, H0494: 1,	L0770: 1, L0662: 1,	L0375: 1, L0806: 1,	L0776: 1, L0657: 1,	L0659: 1, L0792: 1,	L0666: 1, L0663: 1,	L0664: 1, L0665: 1,	L0352: 1, H0648: 1,	L0740: 1, L0749: 1,	L0757: 1, L0361: 1,	L0603: 1 and S0042: 1.	H0553: 2		H0651: 29 and S0212:	1.	H0662: 2, H0670: 1,
Val-56 to Thr-62.	Pro-1 to Gly-12.	Thr-18 to Met-25.	Pro-4 to Pro-18,	Gly-81 to Pro-87,	Ala-110 to Ala-118,	Gln-127 to Gly-143,	Arg-168 to Asp-176.										•								Phe-20 to Gly-26,	Ser-30 to Ser-37.	Ser-37 to Ala-46,	Cys-77 to Ser-85.	
	3002	3003	3004																		•				3005		3006		3007
	1 - 51	2 - 157	1 - 558																						1 - 402		2 - 289		3 - 512
	315	316	317																						318		319		320
	759843	973315	929647																						856488		957804		914428
	HLWDL71	HLWEE76	HLWFG82																	•					HLWFQ04 856488		HMVDU41		HNBTP01

103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040,									-										
L0756: 1 and L0759: 1.	H0662: 2	H0662: 2	H0662: 2	H0662: 2		H0651: 177, L0794: 5,	L0766: 5, H0657: 3,	L0526: 2, L0666: 2,	L0664: 2, L0744: 2,	L0759: 2, S0212: 1,	S0360: 1, H0587: 1,	H0052: 1, H0050: 1,	H0266: 1, H0428: 1,	H0551: 1, H0412: 1,	L0475: 1, H0646: 1,	L0761: 1, L0662: 1,	L0803: 1, L0805: 1,	L0809: 1, L0665: 1,	S0052: 1, S0374: 1,
	Pro-12 to Ser-24, Thr-42 to Ser-47, Pro-52 to Trn-59.			Lys-8 to Asn-14,	Lys-40 to Asp-55.					-									
	3008	3009	3010	3011		3012									_				
	3 - 194	52 - 339	209 - 472	203 - 412	,,,	300 - 115					1								
	321	322	323	324	200	375				•								•	
	965424	965428	933672	951814	707070	0.0808								•					1
·	HNBTT79	HNBTX52		HNBUR07	┰	HNGAOOS													_

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		118800,	123660,	125660,	125660,	193500,	193500,	193500,	193500,	201460,	205100,	237300,	262000,	600266,	601277		118800,	123660,	125660,	125660,	193500,	193500,	193500,
		2q35															2q35	1				·	
H0690: 1, H0659: 1, H0648: 1, H0521: 1, L0786: 1, L0779: 1, L0777: 1, L0780: 1, L0755: 1, H0543: 1 and S0424: 1.		AR054: 7, AR050: 1, 2q35	AR051: 0	H0678: 47, L0748: 12,	L0754: 7, L0747: 6,	L0755: 5, L0776: 4,	L0740: 4, L0749: 4,	L0759: 3, H0553: 2,	L0665: 2, L0779: 2,	S0282: 1, H0057: 1,	H0674: 1, H0616: 1,	H0646: 1, L0770: 1,	L0769: 1, L0646: 1,	20765: 1, L0773: 1,	50777: 1, L0731: 1 and	.0596: 1.	H0678: 47, L0748: 12, 2q35	.0754: 7, L0747: 6,	.0755: 5, L0776: 4,	L0740: 4, L0749: 4,	.0759: 3, H0553: 2,	.0665: 2, L0779: 2,	S0282: 1, H0057: 1,
	Ile-1 to Asp-7, Asn-39 to Pro-46.		His-32 to His-45,	Gly-55 to Lys-64,	Gly-81 to Ser-88.					<u> </u>							Glu-15 to Asp-21,	His-32 to His-45.		П	Prof.	<u> </u>	
	5341	3013		·											•		3014						
	81 - 284	340 - 696															320 - 520						
,	2654	326															327						
	959068	917723	•														917724			-			
		HNNNA06										í					HNNNA09						

193500, 201460, 205100, 237300, 262000, 600266,	118800, 123660, 125660, 125660, 193500, 193500, 193500, 201460, 205100, 262000, 600266,			
	2q35			
H0674: 1, H0616: 1, H0646: 1, L0770: 1, L0769: 1, L0646: 1, L0765: 1, L0773: 1, L0777: 1, L0731: 1 and L0596: 1.	H0678: 2	H0618: 3, L0758: 3, L0794: 2, L0748: 2, L0779: 2, L075: 2, L0731: 2, L0770: 1, H0651: 1 and L0603: 1.	H0651: 8, L0744: 2, L0598: 1 and L0756: 1.	H0651: 154, L0731: 9, L0777: 6, L0803: 4,
		Asp-28 to Ala-37, Arg-49 to Gly-58, Ala-63 to Asn-69.	Pro-76 to Cys-88.	Ala-2 to Lys-10, Glu-70 to Gln-76.
	3015	3016	3017	3018
	771 - 1019	525 - 752	231 - 524	101 - 475
	328	329	330	331
	917725	933730	969363	927903
	HNNNA77	HNOAS06		HNOBF57

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L0775: 3, H0196: 2,	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,	L0664: 1, L0665: 1,	H0659: 1, H0658: 1,	H0672: 1, S0328: 1,	H0539: 1, S0380: 1,	L0439: 1, L0779: 1,	L0594: 1, L0361: 1,	S0026: 1, S0242: 1 and	S0460: 1.	H0651: 6	H0651: 3
																													Asn-18 to Lys-23.
																												3019	3020
																												3 - 374	46 - 114
																											1	332	333
																												964933	952611
																-													HNOCT39

H0651: 2	H0660: 2			H0660: 2	H0328: 3	H0328: 2 and H0615:	4. H0328: 2	H0328: 2 and I 0524:	110526. 2 allu L0554. 1.	H0328: 1 and H0615:	1. U0220. 2	110320. 2	H0328: 2		L0777: 4, H0328: 2,	L0756: 2 and L0803: 1.	H0328: 2	H0328: 2		H0328: 2	H0328: 2	H0546: 1, H0328: 1,	L0779: 1 and L0361: 1.	H0328: 3		H0328: 2	H0328: 2
	Asp-9 to Lys-20,	Ser-25 to Glu-30,	Pro-57 to Asn-63.		Gly-42 to His-47.								Pro-10 to Cys-27,	Gln-41 to Arg-48.			Thr-3 to Lys-12.	Arg-15 to Thr-21,	Ser-38 to Glu-44.			Thr-6 to Asp-14.		Gly-2 to Arg-10,	Ile-27 to Pro-33.	Arg-27 to Trp-33.	Cys-14 to Pro-20.
3021	3022			3023	3024	3025	3026	3027		3028	3020	200	3030		3031		3032	3033		3034	3035	3036		3037	;	3038	3039
536 - 745	8 - 220			3 - 185	91 - 231	280 - 426	48 - 236	70 - 300		46 - 321	76-716	27.00	108 - 311		147 - 398		3 - 161	21 - 158		85 - 300	227 - 328	142 - 297		166 - 303		158 - 331	18 - 116
334	335			336	337	338	339	340		341	342	2 5	343		344		345	346		347	348	349		350		351	352
957833	922418			917484	973463	974043	529410	859509		921666	529405	101003	229404		960179		529401	529402		859519	692684	775425		921662		954161	921655
HNOCU05	HOCMU03 922418			HOCPJ03		HODAD95	HODAG37	HODAH32		HODAJ01	HODAJ35		HODAKS		HODAK95	_		HODAT56		HODAV80	HODAW60 692684	HODAW84	\neg	HODBC01	-+		HODBE01

H0328: 2		H0328: 2	H0328: 2	H0328: 2	H0328: 1, H0059: 1	and L0596: 1.	H0328: 2	H0328: 2		H0328: 1 and H0038:		H0328: 2	H0328: 2	H0328: 2	H0328: 2 and L0749:	2.	H0328: 2		H0328: 2		H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0328: 2		H0328: 2	H0328: 1 and H0615:
Glu-23 to His-30,	Leu-41 to Asp-53.	Lys-13 to Gln-21.	Ser-39 to Arg-45.	Glu-10 to Ala-17.	Ser-22 to Val-41.			Leu-20 to Arg-25,	Ser-47 to Gly-53.	Glu-35 to Ile-40,	Pro-73 to Gln-79.	Glu-1 to Thr-10.	Gln-44 to Thr-51.	Tyr-16 to Thr-22.			Gln-1 to Ser-7,	Arg-15 to Gly-21.	Lys-27 to Leu-32,	Asp-49 to Asp-56.				Leu-1 to Lys-14.	Pro-14 to Ile-20,	Pro-23 to Pro-28.	Arg-1 to Pro-12.	Gly-8 to Thr-22.
3040		3041	3042	3043	3044		3045	3046		3047		3048	3049	3050	3051		3052		3053		3054	3055	3056	3057	3058		3059	3060
3 - 299		1 - 168	2 - 166	59 - 280	71 - 343		1 - 180	2 - 184		2 - 286		1 - 123	20 - 175	39 - 242	1 - 222		87 - 275		1 - 168		2 - 196	162 - 335	3 - 185	122 - 325	127 - 234		15 - 203	313 - 477
353		354	355	356	357		358	359		360		361	362	363	364		365		366		367	368	369	370	371		372	373
927781		859559	678444	529329	761447		967732	529400		932218		529327	967320	932638	529334		829556		573202		573200	573195	507249	529332	954149		917270	920698
норвн16		HODBO85	HODBT58		HODBV71		HODCA11	HODCA68		HODCD05		HODCH64	HODCJ11	HODCJ42	HODCL88		HODCM62		норсо	_	$\neg \neg$		НОДСР69	HODCR43	HODCT07	_	HODCU01	HODCU02

1	H0328: 2	H0328: 3	H0328: 2	H0328: 2	H0328: 2	H0328: 1 and H0615:	1.	H0328: 2				H0328: 2 and H0615:	1.	H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0038: 2, H0328: 1	and H0616: 1.			H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0328: 2	H0328: 1, H0615: 1	and L0758: 1.	H0615: 2 and H0328:	1.
	Arg-5 to Cys-11.	Lys-7 to Glu-12.	Lys-37 to Ser-43.	Pro-49 to His-59.		Glu-21 to Glu-37.		Ala-8 to Ala-13,	110-11 / 10 GIII-20,	Phe-52 to Asn-64,	Asp-72 to Lys-77.	Gln-14 to Leu-22,	Lys-25 to Lys-35.				Val-26 to Lys-38,	Lys-47 to Lys-53,	Lys-60 to Leu-65,	Ser-80 to Ile-90.	Leu-16 to Arg-30.				Arg-10 to Arg-17,	Ser-24 to Lys-30.		
	3061	3062	3063	3064	3065	3066	1,00	3067				3068		3069	3070		3071				3072	3073		3074	3075		3076	
	207 - 323	382 - 591	156 - 284	80 - 280	82 - 273	56 - 166	000	3 - 305				137 - 277		1 - 240	127 - 468		18 - 329				58 - 147	387 - 566		83 - 286	385 - 615		391 - 660	
	374	375	376	377	378	379	000	380				381		382	383		384				385	386		387	388		389	
	524314	973487	960051	575256	859580	933726	00000	065676				529169		937759	806204		742217				523270	780472		859516	829518		975437	
	HODCU62	HODCV09	HODCW17	HODCW37	HODCZ20	HODDDD20	1100011	nODDD41				HODDE28		HODDF51	HODDG57		НОООН52				HODDM21	HODDM25		HODDM78	HODDN40	_	HODDN59	

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AR054: 28, AR050:	22, AR051: 13	H0328: 1, H0674: 1	and L0754: 1.	H0328: 2	H0615: 2 and H0328:	1.		H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0615: 3	H0615: 3	H0615: 2	H0615: 3		H0615: 2	L0776: 2, L0740: 2,	H0484: 1, H0615: 1,	L0809: 1, L0748: 1,	L0750: 1, L0779: 1 and	L0752: 1.	H0615: 2	H0615: 3	H0615: 3	H0615: 2		H0615: 3
					Tyr-11 to Gln-16,	Ala-24 to Ala-32,	Pro-36 to Ser-41.			Gly-1 to Pro-7.	Leu-9 to Gln-20.				Ile-12 to Thr-20,	Tyr-47 to Gly-57.	Thr-34 to Ser-40.	Gln-3 to Arg-14,	Pro-30 to Thr-36.							Pro-3 to Thr-10,	Ser-38 to Pro-47.	
3077				3078	3079			3080	3081	3082	3083	3084	3085	3086	3087		3088	3089					3090	3091	3092	3093		3094
60 - 371				101 - 283	3 - 359			48 - 152	171 - 338	1 - 357	126 - 275	391 - 534	1 - 282	350 - 514	42 - 218		24 - 296	23 - 421					235 - 480	27 - 266	373 - 648	2 - 142		101 - 295
390				391	392			393	394	395	396	397	398	399	400		401	402					403	404	405	406		407
891236				920962	919295			529640	567197	529290	531209	782242	927022	952204	580996		859368	915909					963494	974342	784833	363895		974329
HODDN93				НОДДОО2	НОББО21			HODDR13	HODDS67	HODDDU70	HODDX35	HODEA90	HODEB04	HODEC76	HODED11		HODED55	HODED87					HODEF10	HODEF87	HODEG86	НОДЕН08		HODEH22

																		-				-							
																								-					
H0615: 3		H0615: 3	H0615: 3		H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2	AR061: 4, AR089: 2	H0651: 709, L0766: 5,	L0754: 5, L0756: 3,	L0803: 2, L0779: 2,	L0777: 2, L0759: 2,	S0354: 1, H0643: 1,	H0013: 1, H0194: 1,	H0545: 1, H0373: 1,	H0252: 1, H0615: 1,	H0316: 1, H0040: 1,	H0641: 1, H0647: 1,	S0422: 1, L0598: 1,	L0369: 1, L0520: 1,	L0762: 1, L0649: 1,	L0804: 1, L0527: 1,	L0656: 1, H0144: 1,	H0702: 1, H0547: 1,
Ile-9 to Cys-14,	Pro-22 to Gly-27.	Lys-1 to Ser-10.	Ser-25 to Pro-30,	Pro-84 to Glu-92.			Val-9 to Val-15.				Thr-1 to Ser-13.		Phe-28 to Thr-33,	Ile-44 to Thr-54,		Gln-99 to Lys-106.					•								
3095		3096	3097		3098	3099	3100	3101	3102	3103	3104	3105	3106														,		
66 - 227		511 - 633	363 - 740		45 - 188	312 - 458	1 - 159	69 - 569	115 - 381	215 - 364	206 - 331	246 - 479	1 - 351																
408		409	410		411	412	413	414	415	416	417	418	419														•		
859318		841906	859307		859313	772940	930735	926984	965534	784846	972808	859287	789661		·														
HODEI13		1	HODEK50	\neg	\neg	HODEN75		HODEP04				HODEQ79	HODER91																

				Γ		Τ	Τ	Τ		Τ	Τ		Т	T	Т		T	T			Т	Τ	Т	T	T	T	Т	
																											•	
													!															
H0555: 1, H0436: 1,	S0028: 1, L0746: 1,	L0750: 1, L0780: 1,	L0752: 1 and L0686: 1.	L0753: 3, H0615: 1	and H0683: 1.	H0615: 2	H0615: 2	AR061: 6, AR089: 3	H0615: 5	H0615: 2	H0615: 2		H0615: 2	H0615: 2	H0615: 2 and H0328.	1.	H0615: 2	H0615: 3 and L0367:	1.		H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	
						Val-36 to Gly-42.	Asn-37 to Lys-42.	Met-1 to Arg-6,	Ser-16 to Lys-29.	Pro-19 to Gly-45.	Glu-1 to Lys-7,	Thr-34 to Asn-43.		Gln-36 to Gly-41.	Leu-27 to Ile-33.	Trp-43 to Gln-48.		Ser-9 to Gly-15,	Pro-22 to Lys-27,	Glu-43 to Glu-56.	-	Thr-1 to Ser-16.					Arg-46 to Ser-57,	Thr-67 to Cys-78.
				3107		3108	3109	3110		3111	3112		3113	3114	3115		3116	3117			3118	3119	3120	3121	3122	3123	3124	
				3 - 278		27 - 191	433 - 639	22 - 159		129 - 524	425 - 667	٠	179 - 382	432 - 677	37 - 207		178 - 336	170 - 397			451 - 639	2 - 217	449 - 634	133 - 270	325 - 465	169 - 399	2 - 301	
				420		421	422	423		424	425		426	427	428		429	430			431	432	433	. 434	435	436	437	
				784815		922988	859302	926260		922473	972984		859323	829296	918672		952166	934266			929733	972810	792979	958371	915696	780531	859338	
			0000	HODES86		HODET03	HODEV13	HODEX10		HODEX31	HODEY08		HODEY13	HODEY80	HODEZ02		HODEZ11	HODFA38				HODFB57		HODFD08	HODFD10	HODFD45	HODFE69	

H0615: 2	H0615: 3	H0615: 2	H0328: 1 and H0615:	H0615: 5 and L0665: 2.	H0615: 3	H0615: 2	H0615: 2	H0328: 1 and H0615:	H0615: 3 and H0328:	H0615: 2	H0328: 1, H0615: 1,	L0775: 1, H0648: 1 and L0758: 1.	H0615: 3	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2 and L0558:	1.	
	Gln-15 to Ser-23, Gly-30 to Lys-36.	Lys-32 to Ser-37.		Ala-14 to Ser-38.	Ser-7 to Lys-15, Val-17 to Pro-29.	Pro-45 to Cys-51.			Asp-1 to Asp-7.	Trp-44 to Thr-54.	Tyr-4 to Thr-11,	Thr-15 to Asp-20, Arg-29 to Leu-42.	Tyr-1 to Cys-14, Gln-20 to Ile-47.	Thr-1 to Asn-6.			Thr-1 to Ser-6.	Glu-1 to His-6,	Phe-13 to Pro-23,	Arg-29 to Leu-34,
3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136		3137	3138	3139	3140	3141	3142		
263 - 433	33 - 164	143 - 391	247 - 501	44 - 343	42 - 182	1 - 159	198 - 425	79 - 318	124 - 309	85 - 306	287 - 817		427 - 615	258 - 401	224 - 51	204 - 398	460 - 588	274 - 582		
438	439	440	441	442	443	444	445	446	447	448	449		450	451	452	453	454	455		
782219	915257	783783	859549	974313	974318	918456	859334	921529	859329	859314	921651		918637	934304	915232	918536	934229	806232		1
HODFG37	НОДЕНО	HODFH76	HODFJ01	HODFK18	HODFK94	HODFL91	HODFN19	HODFN42	HODFO03	HODFO37	HODFP40		норғоо2	HODFQ06	HODFT52		HODFU06	HODFU47		

		H0615: 2	H0615: 2	H0615: 3	AR061: 6, AR089: 3	H0615: 2 and L0766:	1.	H0615: 3	H0615: 2 and H0169:	1.	H0615: 2	AR061: 8, AR089: 5	H0615: 3	H0615: 2	•	H0615: 2		H0615: 2		H0615: 2	H0615: 2	H0328: 1 and H0615:	1.	H0615: 2	H0615: 3			
Pro-54 to Asn-60	Pro-62 to Gly-67.										Glu-9 to Gln-21.	Thr-50 to Gln-57.		Ala-8 to Gln-29,	Ser-36 to Gly-44.	His-8 to Gly-18,	Leu-37 to Lys-42.	His-8 to Gly-18,	Gly-26 to Arg-33.			Arg-30 to Asn-35.		Arg-11 to Thr-29.	Ser-2 to Thr-13,	Ile-16 to Ser-26,	Pro-28 to Gln-36,	Gln-41 to Pro-47.
		3143	3144	3145	3146			3147	3148		3149	3150		3151		3152		3153		3154	3155	3156		3157	3158			
		60 - 134	370 - 603	1 - 183	163 - 309			393 - 259	45 - 209		83 - 214	43 - 324		1 - 147		28 - 285		651 - 01		178 - 330	383 - 556	91 - 333		1 - 267	3 - 353			
		456	457	458	459			460	461		462	463		464		465		466		467	468	469		470	471			
			859322	975259	958329			975253	965104		926863	973449		931071		917969		926255		951933	965105	968794		958235	974297			
		HODFUS4	HODFW17	HODFX57	HODFY16			HODFY79	HODFZ11		HODGC04	HODGC61		HODGD05		HODGH02		HODGH04		HODGH07	HODGH11	HODGH91		HODGI08	HODGJ67			

H0615: 4 and H0328:	H0615: 3	H0615: 2	H0615: 3	H0615: 2	AR089: 8, AR061: 3	H0615: 2	H0615: 2	H0615: 3	H0615: 3				AR061: 5, AR089: 2	H0615: 2	H0615: 3	H0615: 2	H0615: 3	H0615: 2 and H0658:	H0615: 2	H0615: 2	H0615: 2 and L0777:	1.	H0615: 3 and H0328:	1.	H0615: 2
Pro-25 to Ser-31.	Phe-81 to Phe-87.				Lys-38 to Arg-44,	Thr-84 to Asp-99.			Val-1 to Lys-7,	Gln-12 to Arg-18,	Arg-22 to Gln-30,	Gly-32 to Glu-40.	Asp-42 to Arg-47,	Gln-84 to Gly-91.		Ala-11 to Cys-16.					Pro-59 to Pro-65,	Glu-96 to Phe-113.	Ala-1 to Glu-12.		Asp-1 to Lys-20, Cys-34 to Ser-42.
3159	3160	3161	3162	3163	3164		3165	3166	3167				3168		3169	3170	3171	3172	3173	3174	3175		3176	f	3177
402 - 698	2 - 304	292 - 525	67 - 228	3 - 236	23 - 358		261 - 377	117 - 245	175 - 405				2 - 274		253 - 402	183 - 371	206 - 310	138 - 257	315 - 479	3 - 119	3 - 341		132 - 278		190 - 384
472	473	474	475	476	477		478	479	480				481		482	483	484	485	486	487	488		489		490
859303	974051	883087	974293	296688	908650		958237	974290	974294	•			894368		974052	958277	963427	913879	933783	961977	922987		974924		926203
HODGL54	HODGM46		HODGP37	HODGP83	НОДСР95		нореов	HODGQ22	НОДСО32				норебор	\neg				HODGX29	HODGZ06		норнс03	\neg	HODHD16	$\neg \Gamma$	HODHG71

H0328: 1 and H0615: 1.	H0328: 1 and H0615: 1.	H0615: 2 and H0328: 1.	H0615: 3	H0615: 3	H0615: 2, H0188: 1	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 3	H0615: 2	H0615: 2 and L0060:	H0415: 1 and H0414:	H0415: 2 and H0414:	H0414: 2	H0415: 1 and H0414:	H0414: 2		H0415: 1 and H0414:
Thr-14 to Arg-22, Ile-25 to Ser-35.	Glu-33 to Lys-46.									Lys-30 to Arg-36.	Lys-8 to Ser-14.	His-20 to Val-35.	Ile-13 to Arg-20.			Pro-1 to Arg-8,	Glu-1 to Leu-8,	Arg-38 to Cys-49.	Val-18 to Arg-31, Arg-36 to Pro-42,
3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195		3196
78 - 293	376 - 636	275 - 451	108 - 302	218 - 62	185 - 415	36 - 137	285 - 461	47 - 214	134 - 379	31 - 384	691 - 14	92 - 256	71 - 385	527 - 99	100 - 249	118 - 306	2 - 220		3 - 293
491	492	493	494	495	496	497	498	499	200	501	502	503	504	505	506	507	508		509
964935	952195	973423	918613	973433	847724	965529	965460	914554	922484	951404	965049	933320	659522	964113	573337	932211	772992		707359
НОРНН82	НОДНІ07	норні26	НОДНК02	HODHL19	HODHL56	НОВНО11	HODHS34	HODHY53	HODJR03	HODJY33	HODJZ90	HODKN07	HOFAA15	HOFAB40	HOFAB71	HOFAD05	HOFAE31		HOFAE61

	Τ				Τ	Т	Τ		_	T					Γ-									Τ
										121011,	129500,	253700,	601885,	602221	106150,	106150,	145260,	173870,	173870,	600759,	600996,	601744,	601975	
										13q11-q12					1942									
	H0414: 2	H0415: 2	AR089: 26, AR061: 10 H0415: 8 and H0414:	H0415: 2	H0415: 2	H0415: 2	H0415: 2			H0415: 2				-	, AR061: 3	H0415: 3								H0415: 3 and H0414:
Arg-57 to Cys-62.	Gly-30 to Gly-46.	Ser-2 to Arg-15.	Arg-10 to Lys-23.	Thr-7 to Gly-18, Pro-20 to Gly-26.			Lys-36 to Ala-52,	Thr-54 to His-61,	F10-90 to 1 m-90.	Pro-31 to Arg-36, Glu-41 to Gln-52.					Pro-1 to Pro-6,	Asp-41 to Arg-6/,	Gly-100 to Val-106.							Arg-1 to Cys-16, Tyr-59 to Lys-68,
	3197	3198	3199	3200	3201	3202	3203			3204					3205									3206
	136 - 273	63 - 347	1 - 399	3 - 158	232 - 405	55 - 264	3 - 446			1 - 387		-			66 - 497	-					-			2 - 478
	510	511	512	513	514	515	516			517					218									519
	868887	782275	572941	572839	916959	867993	924679			734917			-	0.000	973358			•						964722
	HOFAF84	HOFMA24	HOFMB78	HOFMB83	HOFMD13	HOFME41	HOFMF03		_	HOFMF70				1003 moxx	HOFMG21									HOFMH12

						·							
	AR089: 5, AR061: 3 H0415: 1 and H0414: 1.	H0415: 3	H0415: 2	H0415: 8 and H0414: 2.	H0415; 2	AR089: 30, AR061: 10 H0415: 1 and H0414: 1.	H0415: 2	H0415: 5 and H0414:	H0415: 2	H0415: 2	H0415: 2		AR089: 11, AR061: 3 H0415: 2
Glu-76 to Arg-82.	Ser-85 to Gly-100, Pro-102 to Ser-113.	Val-15 to Ala-22, Val-26 to Gly-38, Gln-65 to Gly-70.	Cys-2 to Gly-7, Ala-14 to Pro-20.	Asp-1 to Gly-22, Pro-24 to Gly-34.	Ala-4 to Gly-11, Pro-26 to Trp-31.	Arg-1 to Asp-7, Ser-26 to Leu-39.	Asp-22 to Val-42, Phe-50 to Tyr-55, Leu-65 to Gln-70.	Ala-5 to Trp-19.			Gly-1 to Pro-6, Pro-23 to Asp-28.	Pro-36 to Ser-46,	Gly-1 to His-12, Ser-40 to Pro-66,
	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217		3218
	3 - 413	2-211	2 - 121	3 - 452	1 - 225	2 - 301	3 - 359	1 - 132	49 - 366	422 - 234	2 - 202		2 - 445
	520	521	522	523	524	525	526	527	528	529	530		531
	920365	973359	609722	796358	745133	719663	675122	973349	464015	514556	260869		775242
	HOFMH38	ноғмн95	HOFMI01	HOFMI62	HOFMI63	HOFMJ44	HOFMK22	HOFMM27	HOFMM72	HOFMIN30	HOFMP31		HOFMP79

	_																												
								,																					
		H0415: 1 and H0414:	<u>1</u>		H0415: 4	H0415: 2			H0415: 2	H0415: 1 and H0435:	<u></u>	-		H0415: 2			H0415: 2		H0415: 2						H0415: 2		H0415: 1 and H0414:	1.	H0415: 2
Glu-79 to Lys-89,	Glu-96 to Leu-105.	Gly-11 to Leu-19,	Val-23 to Gly-32,	His-34 to Ser-45.		Gly-1 to Ser-13,	Arg-26 to Glu-35,	Gly-38 to Met-48.		Thr-4 to Gly-9,	Leu-32 to Glu-42,	Pro-54 to Cys-68,	Ile-97 to Gly-113.	Arg-34 to Thr-44,	Pro-65 to Gly-79,	Leu-98 to Ser-105.	Asn-20 to Cys-29,	Val-33 to Ser-40.	Val-6 to Arg-12,	Pro-19 to Thr-36,	Ser-49 to Thr-54,	Glu-61 to Trp-67,	Pro-77 to Ala-84,	Ser-104 to Asn-114.	Arg-1 to Asn-8,	Lys-20 to Gly-38.	Gly-2 to Gly-9.		Arg-1 to Gly-20,
		3219			3220	3221			3222	3223				3224			3225		3226						3227		3228		3229
		34 - 318			183 - 449	2 - 280			187 - 348	340 - 2				2 - 502			2 - 157		1 - 411						2 - 169		3 - 248		2 - 373
		532			533	534			535	536				537			538		539						540		541		542
		823439			906933	789347			464075	514568				575820			862699		811542						754251		563575		702492
		HOFMQ04			ноғмоз1	ноғмо65			HOFMS68	HOFMS74				HOFMS89			HOFMT20		HOFMT43						HOFMT66		HOFMT72		HOFMU33

	H0415: 2	H0415: 2	H0415: 2			H0415: 2		H0415: 2	H0415: 2	H0415: 2	H0415: 2	H0415: 2	AR054: 11, AR051: 3,	AR050: 2	H0415: 2						H0415: 2					H0415: 2	H0415: 2	H0415: 2
Pro-45 to Ser-50.	His-8 to Trp-19.		Lys-10 to Trp-15,	Pro-47 to Ser-55,	Pro-67 to Phe-76.	Glu-19 to Gln-24,	Thr-30 to Lys-38.	Arg-1 to Gly-12.	Tyr-1 to Pro-12.		Pro-80 to Trp-88.		7	7		Ala-5 to Ala-13,	Pro-15 to Lys-23,	Ala-39 to Cys-44,	Pro-47 to Cys-74,	Ala-83 to Gly-90.	Gly-1 to Asn-10,	Gln-30 to Asp-35,	Gln-44 to Gly-54,	Ser-61 to Val-89,	Ser-92 to Ser-98.	Thr-30 to Tyr-39.	Gly-19 to Asn-24.	Thr-18 to Trp-23.
	3230	3231	3232			3233		3234	3235	3236	3237	3238	3239			5342					3240					3241	3242	3243
	1 - 243	2 - 121	3 - 230			209 - 373		95 - 343	203 - 3	3 - 122	54 - 341	446 - 90	407 - 174			2 - 325			•		2 - 388					67 - 225	140 - 280	1 - 207
	. 543	544	545			546		547	548	549	550	551	552			2655		_			553					554	555	556
	744325	713809	829109			615287		792734	973354	658476	867984	727285	727173			888450					716670					717067	859106	935569
	HOFMU63	HOFMU75	HOFMV84			HOFNA04		HOFNA92	HOFNC63		HOFND40	HOFND50	HOFND52								HOFND90					HOFND94	HOFNG01	HOFNG06

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											601362												125852,	106450	120402,	126452,	141900,	141900,	141900,	141900.
											10p13	•											11p15.5	•						
H0415: 2	TT0415. 4	H0415: 4	H0415: 2		H0415: 3	AR089: 9, AR061: 3	H0415: 1 and H0414:		AR089: 8, AR061: 7	H0415: 3	H0415: 6, H0414: 2,	H0046: 1 and H0271: 1.			H0415: 2	H0415: 2	H0415: 2	H0415: 2	7.0410.7				H0415: 2							
Asp-14 to Gly-20,	Arg-45 to Ala-50.		Pro-2 to Gly-13,	Gly-59 to Ser-64.	Gly-36 to Tyr-50.	Ser-26 to Pro-33.	•		Lys-54 to Ser-60,	Tyr-86 to His-93.	Gly-1 to Pro-6,	Thr-24 to Ala-30,	Ser-33 to Pro-41,	Sel-31 to Sel-01.		Gln-1 to Pro-8.		Pro-7 to Ser-12	Glu-37 to Ser-42	Leu-45 to Gly-53,	Leu-68 to Val-75,	Ser-81 to Thr-86.								
3244	3275	2543	3246		3247	3248			3249		3250			1000	3251	3252	3253	3254					3255							
3 - 152	1 426	074 - 1	140 - 376		117 - 362	1 - 405			41 - 346		2 - 394			,	1 - 225	244 - 414	2 - 340	109 - 405					1 - 216				-			
557	558	955	559		260	561			295		563			100	204	565	995	295					268							
715101	974435	CC++1/	/2/80/		717355	666498			916963		906250			711005	/11/CD2	770088	869113	615305					705435				-			
HOFNH33	HOFNIOR	Т	HOFNI48		HOFNI82	HOFNL18			HOFNL25		HOFNL37			HOENT 40	Т	\neg		HOFNT59				_	HOFNU72							

141900,	142000,	142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	192500,	194071	194071	204500.	600856,	601680	602631,	602631									
																	-			H0415: 2	H0415: 8 and H0414:	2.	H0415: 2	H0415: 2			H0415: 2	H0415: 2
							•													Lys-1 to Ser-14.			•	Pro-15 to Pro-25,	Lys-68 to Glu-76,	Lys-89 to Arg-107.	Ser-18 to Ser-34.	Gly-1 to Pro-6.
																				3256	3257		3258	3259			3260	3261
																			i	28 - 237	9 - 365	- 0.	217 - 495	68 - 430			98 - 379	2 - 268
																				569	570		571	572			573	574
																				916588	973351		920218	715312			660317	859104
																	-				HOFNW79	_	_	HOFNY50			- 1	HOFNZ16

														_							_				
230400,	230230																								
9p13-p12																									
H0415: 2	H0415: 2	H0415: 1 and H0414:	H0415: 2	H0415: 2						H0415: 2	H0415: 2			H0415: 2	H0415: 2		H0435: 1 and S0152: 1.		H0615: 1 and H0435:	11.	HU003: 2, LU/61: 1,	-0111 alla 110433. 1.			H0435: 2 and L0592:
Arg-1 to Gly-6.			Gly-34 to Glu-39.	Thr-2 to Val-11,	Leu-18 to Gly-25,	Pro-30 to Ser-35,	Ala-40 to Pro-47,	Lys-62 to Glu-70,	Lys-76 to Arg-82.		Thr-1 to Ser-11,	Ser-23 to His-29,	Gly-53 to Gln-67.		Asn-1 to Gln-9,	Pro-17 to Ala-30.	Asp-1 to Leu-22,	Val-26 to Trp-38.	Cys-10 to Asp-19.	Dr. 0 to 1 15	Ara-67 to Ara-74	Arg-76 to Glv-85.	Glu-91 to Gly-97,	Thr-113 to Phe-120.	Lys-1 to Val-7.
3262	3263	3264	3265	3266						3267	3268			3269	3270		3271		3272	2773	0.40				3274
109 - 456	29 - 229	99 - 218	142 - 369	1 - 501						1 - 234	173 - 382			3 - 419	78 - 431		3 - 269		247 - 402	211 - 576	0/6 - 117				264 - 443
575	576	277	578	579						280	581			582	583		584		585	586	3			1	587
677372	683473	794308	935553	751692						827631	924473			606999	739399		947431		954011	926098				00000	575929
HOFNZ21	HOFNZ58	HOFNZ94	HOFOA17	HOFOB88						HOFOB91	HOFOE94		丁	\neg	HOFOF84	_	HOGAF39	\neg	HOGAU90	HOGAV36 926098				\neg	HOGBF/8

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1.	H0165: 1, H0435: 1 and L0747: 1.	·H0435: 2	H0040: 1 and H0435:	<u>, .</u>			H0038: 2, L0758: 2,	H0253: 1, H0616: 1,	H0435: 1 and L0777: 1.	H0435: 2	H0435: 1 and H0670:			H0648: 2, L0367: 1,	H0651: 1, L0748: 1 and	L0754: 1.	H0428: 2	H0428: 2	H0428: 2 and L0588:	-	H0428: 2	H0428: 2		L0754: 2, H0428: 1	L0777: 6, L0758: 5,
	Pro-12 to Ala-17, Val-29 to Gly-36.	Pro-3 to Lys-13, Thr-39 to Ile-45.	Arg-1 to Glu-14,	Thr-39 to Gln-45,	Pro-52 to Lys-62,	Glu-89 to Thr-94.					Asp-25 to Ser-34,	Tyr-39 to Gln-44,	Leu-84 to Lys-90.									Ser-22 to Arg-35,	Lys-39 to Gly-44.	Arg-15 to Gln-21.	Lys-21 to Gly-26.
	3275	3276	3277				3278			3279	3280			3281			3282	3283	3284		3285	3286		3287	3288
	381 - 193	3 - 137	2 - 364				52 - 660			732 - 298	1 - 285			418 - 621			215 - 358	55 - 183	2 - 298		3 - 107	64 - 243	:	89 - 238	515 - 763
	588	589	290				591			592	593			594			595	296	265		298	665		009	601
	950216	186515	717068				890607			956896	185196			965013			576627	757294	927320		670963	123671		9900/	964671
	нодсобо	HOGCR32	HOGCT45				HOGCX95			HOGEE76	HOGEU49			нооло59			HOVAF17	HOVAF71	HOVAG49		HOVAI41	HOVAM50		HOVAO76	HOVBQ10

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																			138079,	138079,	139191,	142959,	153880,	180104	60094,	601649		
																			7p15									
L0747: 2, H0428: 1,	L0770: 1, L0768: 1,	L0533: 1, H0666: 1,	L0750: 1 and L0755: 1.	H0428: 2		AR051: 44, AR050:	43, AR054: 30	H0428: 2	H0428: 2	H0428: 2	H0428: 3		H0428: 2	H0428: 2		H0674: 2, H0549: 1	and H0428: 1.		H0428: 2 and L0770:	<u></u>						-	H0428: 2	L0758: 3, H0428: 2, L0794: 2, L0764: 1,
				Gly-1 to Ala-8,	Glu-67 to His-74.	Gly-37 to Arg-46,	Ser-57 to Trp-70.	•	•	Ser-8 to Leu-16.	Arg-13 to Gly-18,	Gln-44 to Ser-50.	Lys-7 to Ser-16.	Leu-16 to His-22,	Cys-50 to Pro-55.	Ser-1 to Lys-14,	Gln-48 to Asn-63,	Glu-70 to Pro-88.	Val-11 to Leu-18.									
				3289		3290			3291	3292	3293		3294	3295		3296			3297								3298	3299
				2 - 295		3 - 215			232 - 354	25 - 192	60 - 284		119 - 241	68 - 319		219 - 482		,	157 - 423								283 - 420	1 - 213
				602		603			604	605	909		209	809		609			610								611	612
				706816		888442			727170	705406	858845		713792	858844		674177			970814								736065	496190
			•	HOVBY34		HOVBZ26			HOVCA52	HOVCD39	HOVCI76		HOVCI77	HOVCJ24		HOVCM22			HOVC011								HOVCO58	HOVCQ47

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			·-																			113100,	124200,	147440.	158590,	160781,	163950,	163950,
																						12q24						
L0803: 1 and L0593: 1.	L0769: 4, L0758: 3, L0717: 2, H0428: 2,	L0794: 2, L0731: 2,	L0591: 2, L0776: 1,	L0786: 1 and L0779: 1.	H0428: 1 and H0032:	- [AK089: 10, AK061: 4	H0038: 4, H0616: 3,	L0747: 3, L0758: 3,	L0663: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0428: 2 and H0546:	1.	H0688: 3	S0146: 2	H0658: 1, S0146: 1 and	L0754: 1.	S0146: 2						
	Ser-25 to Gly-45.				Thr-11 to Pro-21.	Mot 10 to Cl.: 10	Met-10 to Gly-18.																					
	3300				3301	2202	7000									3303		3304	3305	3306		3307						
	81 - 320				131 - 3	3 305	5-595									128 - 307		37 - 225	57 - 155	96 - 230		2 - 355						
	613				614	615	010									919		617	618	619		620						
	926219				669896	000138	907706									959234		961467	573829	698320		574952						
	HOVDY04 926219				HOVEE58	HOVEK70	HOVER/U									HOVEV36		HOVJA10	HPCAB21	HPCAB31		HPCAE18						

251170,	2/6/10,	600175,	/1000																						
			S0146: 2	S0146: 2, H0046: 1,	S0148: 1, L0439: 1 and	S0146: 2	S0146: 2		H0615: 1, H0658: 1	H0031: 1 and S0146: 1	S0146: 2	S0146: 2.	S0146: 2	S0146: 2	S0146: 2	H0659: 2	H0659: 2	H0606: 1, L0803: 1	and H0659: 1.	H0549: 1, L0773: 1,	L0768: 1, L0794: 1,	L0803: 1, H0658: 1 and	L0747: 1.	H0658: 2	H0046: 17, H0658: 1
							Lys-1 to Gln-6,	MOL-13 to 1111-63.			Gly-24 to Ser-34.	Asn-12 to Ile-18.	Asp-26 to Phe-39.				Gly-29 to Tyr-34.	Ser-34 to Gly-43,	Lys-55 to Leu-71.						Arg-7 to Tyr-14.
			3308	3309		3310	3311		3312	3313	3314	3315	3316	3317	3318	3319	3320	3321		3322				3323	3324
			192 - 314	488 - 637		134 - 259	58 - 168		455 - 634	265 - 420	41 - 142	1 - 117	64 - 237	91 - 210	181 - 315	88 - 249	3 - 128	3-371		1 - 384				22 - 201	92 - 436
			621	622		623	624		625	626	627	628	629	630	631	632	633	634		635				636	637
			573395	808856		655535	655536		662121	734931	655723	604466	209559	655742	655732	927168	928186	927135		922481				929318	966158
			HPCAH18	HPCAH88		HPCA121	HPCAI68		HPCAK16	HPCAK57	HPCAL60		HPCAM22		HPCA004		HPCPO07	HPCQY57		HPDOT03					HPDP169

													•																
and H0672: 1.	H0658: 2	L0520: 2, L0770: 2,	H0658: 2, L0659: 1 and	L0759: 1.	L0749: 3, H0658: 2	and H0660: 1.	H0658: 2, L0745: 2,	H0644: 1 and L0529: 1.	H0658: 2	L0748: 3, H0658: 2	and L0741: 1.	L0021: 1, H0658: 1	and H0672: 1.	H0644: 2 and H0658:	1.	L0512: 5, L0513: 4,	H0686: 3, L0509: 3,	L0789: 3, L0761: 2,	L0772: 2, L0764: 2,	L0717: 1, L0800: 1,	L0378: 1, L0776: 1,	L0659: 1, H0658: 1 and	L0747: 1.	H0046: 2, L0794: 1,	L0766: 1, H0658: 1,	L0748: 1 and L0758: 1.	L0374: 1, L0804: 1,	L0805: 1, H0658: 1,	H0648: 1, L0750: 1 and
		Ile-10 to Asn-36.			Ala-13 to His-22,	Leu-80 to Arg-86.				Pro-51 to Phe-57,	Ser-87 to Thr-94.			Arg-5 to Cys-10,	Ser-22 to Ile-28.		Arg-103 to Val-108.												
	3325	3326			3327		3328		3329	3330		3331		3332		3333								3334			3335		
	155 - 316	2 - 223			588 - 875		306 - 449		308 - 511	1 - 291		2 - 163		342 - 554		430 - 765								524 - 847			97 - 243		
	638	639			640		641		642	643		644		645		646								647			648		
	969340	922464			929274		914437		957791	967704		922678		951634		928647								922193			226896		
	HPDPK12	HPDPQ40			HPDQ005		HPDRB01		HPDRD28	HPDRG92		HPDRO20		HPDVB07		HPDVE05								HPDVF03			HPDVK12		

						,							106300, 108800, 120290, 120290,
													6p21.1-p21.3 106300, 108800, 120290, 120290,
L0755: 1.	L0779: 2, H0032: 1 and H0658: 1.	H0658: 2	H0165: 2	H0166: 1, H0059: 1 and L0768: 1.	H0166: 2 and L0598:	H0166: 2 and L0604: 1.	H0166: 1, H0673: 1, L0763: 1 and L0581: 1.	H0673: 2	H0673: 2	H0328: 1 and H0673:	L0779: 2, H0428: 1, H0673: 1, L0766: 1 and L0658: 1.	H0168: 1 and H0169: 1.	H0169: 2
	His-19 to Tyr-34, Glu-39 to Pro-47.	Gln-1 to Thr-6, Ser-22 to Leu-27, Ser-32 to Phe-37.		Trp-1 to Pro-11, Ala-27 to Phe-34, Ser-46 to Thr-60	Ile-18 to Asn-25.		Glu-31 to Cys-39.				Gly-1 to Asn-8, Pro-22 to Ser-31, Thr-41 to Lys-48.		Ser-12 to Ser-17, Lys-24 to Ser-34.
	3336	3337	3338	3339	3340	3341	3342	3343	3344	3345	3346	3347	3348
	439 - 591	226 - 444	3 - 224	253 - 2	61 - 255	3 - 200	284 - 406	1 - 96	57 - 131	220 - 408	2 - 217	283 - 426	40 - 288
	649	059	651	652	653	654	655	959	657	658	659	099	661
	933443	955902	867892	960802	723298	655760	716911	914115	922391	921663	969251	960801	524720
	нРDVM06	HPDVY17	HPEAF19	HPEBA06	HPEBA51	НРЕВD31	HPEBE44	HPEKG18	HPEKJ42	HPEKU27	HPEKX12	HPFAA06	HPFCA36

	120810,	120820,	142857,	142858,	150270,	167250,	170261,	177900,	179450,	179605,	179605,	179605,	179605,	179605,	180297,	201910,	217000,	222100,	233100,	235200,	248611,	256550,	256550,	263200,	500202,	500261,	500364,	501498,	501690,	501868,
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602280,												103050, 103050,	124030,	124030,	138981,	188826,	190040,	190040, · · · · · · · · · · · · · · · · · · ·						
					•						,	22q13.1												
	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2		H0169: 2	H0169: 2	H0169: 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H0169: 2 and L0519: 1.							H0169: 2, L0749: 2	and L0748: 1.	H0169: 2	H0169: 2	H0169: 2	H0169: 2
	Glu-28 to Gly-42.			Ser-2 to Pro-10.	Ala-38 to Ser-48.	Met-4 to Leu-9,	Gly-39 to Gln-46.	Ser-15 to Leu-23.		Leu-18 to Arg-25,	013-33 to 133-40.	Ser-18 to Thr-25.							Glu-11 to Thr-19.					Lys-9 to Thr-14,
	3349	3350	3351	3352	3353	3354		3355	3356	3357		3358							3359		3360	3361	3362	3363
	130 - 363	152 - 355	186 - 398	353 - 189	38 - 193	154 - 357		65 - 139	135 - 287	2 - 244		20 - 166							1-210		136 - 306	273 - 401	190 - 411	140 - 286
	662	663	664	999	999	<i>L</i> 99		899	699	029	, ,	671							672		673	674	675	9/9
	965559	236666	655744	009896	781490	892559		655538	655736	925495		960365							867871		867880	622749	655621	655533
	HPFCA71	HPFCF09	HPFCF24	HPFCF40	HPFCF83	HPFCH15		HPFCH89	HPFCM41	HPFCM87		HPFCN08							HPFC002		HPFCO67	HPFCQ88	HPFCR21	HPFCR82

	H0169: 2	H0169: 3		H0169: 2		H0169: 2 and L0776:			H0328: 1, H0615: 1,	H0169: 1, L0807: 1 and	L0754: 1.	H0169: 2	H0169: 2	H0169: 2 and L0809:			H0169: 4			H0169: 3	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2 and L0763:	1.	H0169: 3
Glu-21 to Pro-26.	Met-1 to Cys-9.	Ile-3 to Ala-14,	Arg-63 to Pro-68.	Glu-9 to Arg-15,	Pro-24 to Tyr-39.	Leu-5 to Ser-11,	Pro-13 to His-19,	Lys-34 to Tyr-39.	Gly-22 to Cys-32.			Ser-16 to Asp-26.	Lys-23 to Val-34.	Leu-4 to Lys-18,	Gly-36 to Glu-45,	Lys-60 to Cys-65.	Asp-1 to Arg-7,	Thr-17 to Asn-22,	Leu-25 to Pro-30.	Ser-3 to Tyr-9.	Cys-32 to Pro-38.	Leu-5 to Gly-10.			Pro-18 to Asn-25.			
	3364	3365		3366		3367			3368			3369	3370	3371			3372			3373	3374	3375	3376	. 3377	3378	3379		3380
	13 - 120	271 - 522		85 - 198		79 - 195			1 - 240			153 - 263	2 - 163	67 - 330			392 - 538			156 - 320	121 - 318	197 - 367	2 - 202	8 - 160	166 - 342	36 - 212		63 - 173
	<i>LL</i> 9	8/9		629		089			681			682	683	684			685			989	289	889	689	069	169	692		693
	655563	974257		655432		90/559			525554			655588	002096	655704			974249			973732	655610	655549	954333	655543	581133	022230	3,1	974569
	HPFCT09	HPFCT53		HPFCT62		HPFCV19			HPFCV71			HPFCX18	HPFDD06	HPFDE38			HPFDE61			HPFDF79	HPFDG58	HPFDI23	HPFDL90	HPFDS59	HPFDT17	HPFDT54		HPFDT61

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H0169: 2	H0169: 2	H0169: 2	AR050: 117, AR054:	88, AR051: 81	H0169: 2	H0169: 2, L0747: 2,	H0688: 1, L0770: 1,	L0803: 1, L0748: 1 and	L0756: 1.	H0169: 2	H0169: 3	H0169: 2	H0674: 2	H0674: 2	S0150: 2		S0150: 2				S0150: 2	S0150: 2	H0484: 1 and S0150: 1.		S0150: 2	AR061: 9, AR089: 7	H0616: 1, S0150: 1 and	L0581: 1.
His-46 to Pro-51.			Pro-14 to Gly-25.			Val-1 to Lys-11,	Pro-24 to Asp-33,	Lys-44 to Glu-58.			Ile-1 to Gly-44.		Ala-7 to Arg-12.	Lys-9 to Leu-15.	Asn-1 to Lys-7,	Pro-14 to Cys-23.	Ser-1 to Arg-7,	Pro-57 to Trp-67,	Pro-70 to Ala-75,	Ser-87 to Gly-95.	Pro-39 to Glu-46.	Lys-1 to Lys-17.	Gly-1 to Val-6,	Asp-25 to Gln-42.	Ser-8 to His-16.			
3381	3382	3383	3384			3385				3386	3387	3388	3389	3390	3391		3392				3393	3394	3395		3396	3397		
2 - 232	36 - 167	214 - 369	124 - 354			1 - 294				25 - 213	2 - 187	142 - 309	63 - 212	39 - 113	17 - 394		2 - 334				106 - 243	61 - 2	2 - 463		64 - 174	282 - 608		
694	695	969	269			869				669	700	701	702	703	704		705				706	707	208		709	710		
522113	628298	739617	0/8/98			655571				655764	960372	925499	923236	917775	655748		655595				919469	655573	928614		615007	925424		
HPFDU30	HPFDU38	HPFDU59	HPFDV71			HPFDX13				HPFDZ20	HPFEA08	HPFEA32	HPFMA06	HPFML02	HPIAE79		HPIA083				HPIAQ49	HPIAQ76	HPIAS40		HPIAV80	HPIAX11		

S0150: 2	AR089: 4, AR061: 2	S0150: 2			H0546: 1 and S0150: 1		S0150: 2	S0150: 2	L0439: 2, H0616: 1	and S0150: 1.	S0152: 2	S0152: 2		S0152: 2 and L0780: 1.		S0152: 2	S0152: 2	S0152: 2		S0152: 2		S0152: 2	L0748: 3, S0152: 2,	H0615: 1, H0617: 1 and	L0758: 1.	S0152: 2	S0152: 2	S0152: 2
	Ile-47 to Val-53,	Phe-71 to Thr-76,	Ser-105 to Thr-113,	Glu-121 to Ser-129.	Ala-15 to Ser-21,	Gln-30 to Asp-36.	Tyr-30 to Cys-36.					His-1 to Asp-6,	Ala-16 to Ala-25.	Cys-5 to Gly-12,	Ser-47 to Arg-52.	His-1 to Leu-19.		Val-2 to Ser-14,	Gly-27 to Ala-37.	Arg-5 to Lys-13,	Ser-20 to Thr-25.	Leu-43 to Cys-51.				Ser-29 to Arg-35.	Ser-19 to Gln-25.	
3398	3399				3400		3401	3402	3403		3404	3405		3406		3407	3408	3409		3410		3411	3412			3413	3414	3415
2 - 289	2 - 424				1 - 468		176 - 283	133 - 294	211 - 414		1 - 153	3 - 269		154 - 330		3 - 251	180 - 332	141 - 290		53 - 187		180 - 335	346 - 594			162 - 326	1 - 81	99 - 263
711	712				713		714	715	716		717	718		719		720	721	722		723		724	725			726	727	728
655753	884289				725539		622219	655757	786117		655540	655531		655601		867831	655712	655694		655765		952852	823393			655761	655708	655751
HPIAZ37	нРВQ37				HPIBR51		HPIBT49	HPIBY65	HPICC89		HPJAB19	HPJAB84		HPJAC36		HPJAC92	HPJAD09	HPJAD66		HPJAD82		HPJAV07	HPJAW56			HPJBI17	HPJBI89	HPJBK52

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S0152: 2		S0152: 2	S0152: 2	S0152: 2	H0056: 1 and S0152: 1.	S0152: 2	H0253: 1 and S0152: 1.			S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2 and L0070: 1.							80152: 2	H0615: 2 and S0152: 1	S0152: 2	L0770: 2, L0779: 2,	H0553: 1, L0766: 1,	L0666: 1, S0152: 1 and
Gln-13 to Thr-18,	His-40 to Met-45.		Asn-42 to Gly-51.		Pro-36 to Gly-62.		Ala-14 to Lys-21,	Asp-37 to Gly-48,	Gly-60 to Leu-65.			Pro-3 to Cys-11.	Val-2 to Thr-8.	Ser-1 to Gly-16.	Leu-8 to Lys-19,	Asp-25 to Arg-33,	Ser-40 to Ser-63,	Ala-70 to Val-77,	Glu-91 to Asp-97,	His-108 to Asn-116,	Lys-130 to Glu-136, Asn-139 to Val-144				Ser-23 to Arg-28.		
3416		3417	3418	3419	3420	3421	3422			3423	3424	3425	3426	3427	3428							3429	3430	3431	3432		
29 - 193		10 - 123	32 - 370	113 - 244	95 - 337	2 - 286	260 - 460			245 - 334	239 - 349	111 - 203	79 - 183	102 - 242	438 - 1031							386 - 556	299 - 454	79 - 183	292 - 483		
729		730	731	732	733	734	735			736	737	738	739	740	741							742	743	744	745		
626856		655729	926787	964259	929996	590404	560896			655730	009559	695559	922850	934170	958182							906904	931027	838748	026756		
HPJBU08		HPJBV17	HPJCC04	HPJCP10	HPJCP11	HPJCS84	HPJCV50			HPJCX15	HPJCX26		HPJCZ03	HPJCZ06	HPJDA08							HPJDJ58	HPJDP05	HPJDX94	HPJEE38		

			11																								
L0777: 1.	S0152: 2	S0152: 2	H0435: 1 and S0152: 1.11	S0152: 2	AR061: 0, AR089: 0	80152: 2		S0152: 2		L0754: 39, L0748: 7,	H0553: 4, H0030: 1,	L0142: 1 and S0454: 1.	H0030: 2	H0030: 2	H0030: 2		H0030: 2	H0030: 1, H0038: 1	and L0758: 1.	H0031: 2	H0031: 2	H0031: 2	H0031: 2 and L0777:	2.	H0031: 3		
	Gly-1 to Pro-7.	Gly-1 to Ala-11.		Thr-29 to Gly-38.	His-8 to Gly-18,	Leu-40 to Ile-45,	Asn-100 to Asp-105.	Leu-17 to Glu-23,	Arg-27 to Glu-35.	Gly-1 to Arg-9.					Gly-1 to Ala-7.	Pro-42 to Asn-47.	Phe-29 to Lys-35.	Glu-1 to Thr-9.					Gln-20 to Ser-31,	Phe-41 to Gly-47.	Tyr-19 to Gly-46,	Ser-48 to His-59,	Gly-65 to Gly-77, Thr-91 to Tvr-96
	3433	3434	3435	3436	3437			3438		3439			3440	3441	3442		3443	3444		3445	3446	3447	3448		3449		
	14 - 130	284 - 538	149 - 328	239 - 448	39 - 377			70 - 213		49 - 189			236 - 3	287 - 72	16 - 183		57 - 245	2 - 241		40 - 153	2 - 214	1 - 147	125 - 301		3 - 503		
	746	747	748	749	750			751		752			753	754	755		756	757		758	759	760	192		762		
	926815	930988	927618	867725	836503			934096		717680			557554	503751	503732		503730	558187		705471	766443	954057	277661		575626		
	HPJEI55	HPJEJ39	HPJEQ04	HPJEQ22	HPJET90			HPJEV06		HPLAN47			HPLAR41	HPLBB50	HPLBL31		HPLBL57	HPLB061	_		HPMAH75	HPMBK34	HPMBK49		HPMBM48		

									12															
H0031: 2	H0031: 4	H0031: 3	H0031: 2		H0031: 2	H0031: 2	H0031: 2	H0031: 2	H0031: 4 and L0803:	H0031: 2	H0031: 2 and L0605:	H0031: 2	H0253: 1 and H0031:	H0031: 2, L0809: 1,		H0031: 2	H0031: 3	H0031: 2	H0031: 2	H0031: 2 and L0600:	1.	H0031: 3		H0031: 10
		Gly-1 to Gly-8.	Thr-1 to Gln-7,	Pro-24 to Gly-32.	Ser-32 to Thr-41.			Tyr-25 to Gly-32.	Ser-50 to Gly-55.		Gly-12 to Ile-18.	Pro-28 to Pro-42.	Asp-1 to Cys-6.	Leu-19 to Thr-25, Arg-66 to Phe-87			Glu-30 to Asp-40.			Leu-6 to Leu-16,	Thr-24 to Trp-29.	Gh-1 to Gh-9,	Arg-15 to Gly-22.	Tyr-1 to Arg-8.
3450	3451	3452	3453		3454	3455	3456	3457	3458	3459	3460	3461	3462	3463	5343	3464	3465	3466	3467	3468		3469		3470
1 - 120	39 - 278	1 - 249	192 - 404		28 - 165	3 - 125	118 - 276	2 - 163	90 - 341	62 - 196	111 - 302	171 - 314	3 - 278	326 - 66	3-341	27 - 161	93 - 317	1 - 243	44 - 304	54 - 314		3 - 182		16 - 108
763	764	765	99/		191	768	692	770	771	772	773	774	775	9//	2656	777	778	611	780	781		782		783
920865	968365	219198	785732		557870	531058	217637	531338	527006	932527	531289	531066	529960	381961	881473	577598	524768	531279	577601	742095		954056		961250
HPMBN02	HPMBO10	HPMB061	HPMBR17		HPMBU81	HPMBX35	HPMBX79	HPMBY76	HPMBY83	HPMBZ05	HPMCB65	HPMCC73	HPMCD77	HPMCI02		HPMCI65	HPMCJ14	HPMCJ19	HPMCJ48	HPMCK65		HPMCS19		HPMCS65

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				-									-														
594:	758:						62:					-									: 4,				0:1.		44:
H0031: 3 and L0594:	H0031: 2 and L0758:	1.			H0031: 2		H0031: 2 and L0662:	1	H0031: 2		H0031: 2	H0031: 3, L0667: 1	and L0748: 1.	H0031: 4	H0031: 2		H0031: 2	H0031: 2	H0031: 2		L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1.	L0749: 1 and L0780: 1	H0031: 2	H0031: 2 and H0644:
Arg-5 to Trp-15.	Gly-1 to Ser-8,	Leu-36 to Gly-42,	Leu-48 to Asn-55,	Lys-83 to Met-91.	Pro-19 to Lys-26,	Pro-36 to Gly-55.	Gln-6 to Thr-19.		Asp-7 to Leu-12,	Ala-16 to His-21.					Glu-1 to Pro-6,	Thr-45 to Val-50.			Gly-38 to Ser-45,	GIY-12 to GIY-18.						Lys-8 to Lys-15.	Phe-5 to Gly-10.
3471	3472				3473		3474		3475		3476	3477		3478	3479		3480	3481	3482	00,0	3483		•			3484	3485
31 - 186	1 - 285				2 - 202		115 - 312		119 - 271		189 - 338	272 - 397		108 - 215	49 - 330		55 - 204	33 - 227	3 - 299	17.0 07.0	163 - 276					7 - 51	116 - 286
784	785				786		787		788		789	. 790		791	792		793	794	795	202	96/					797	798
657532	867673				727392		967655		867687		725180	571411		582594	277590		531275	867682	745346	202002	979//6					531274	531276
HPMCV93	HPMCW25				HPMCW53		HPMCX11		HPMCY30		HPMCY31	HPMCY35		HPMDJ09	HPMDL78		HPMD039	HPMDR07	HPMDT91	_	HEIMDOIN				\neg		HPMDZ62

										102480,	123620,	133450	133450	38081	100001,	188820,	30040,	190040,	190040,	600850,	601669.	602229	189800,	600983	_		-	
										22q12-q13					<u>- •</u>	<u> </u>	_			_ &	<u>.</u>	<u>v</u>	4q31.1-q31.2					
1.	H0031: 2	H0031:2	H0031: 2	H0031: 2 and L0740:	1. ADOK1. 6 ADOO0. 3		H0031-4	H0031: 2	H0031: 2		H0046: 2, L0617: 1,	I 0747: 1 and I 0770: 1	LV/7/. 1 4114 LV//7. 1.									•	H0031: 2			H0031: 3		
	Lys-20 to Thr-31.			Ile-29 to Ile-36.	I sig 22 to Cor 22	Lys-23 to 361-33.			Pro-20 to Pro-26.	Arg-1 to Ser-8,	Pro-23 to Gly-30,	311-62 to Ara-68	GIG-02 to ALB-00.										Pro-15 to Leu-27,	Phe-44 to Asp-49,	Ala-83 to Lys-99.	Asp-37 to Thr-43,	Ala-46 to Ala-53,	His-64 to Trp-76.
	3486	3487	3488	3489	3400	2420	3491	3492	3493	3494													3495			3496		
	3 - 149	136 - 249	92 - 214	1 - 114	7 151	10+ - 7	240 - 437	182 - 319	3 - 122	117 - 443													3 - 404			3 - 281		
	662	800	801	802	903	500	804	805	908	807													808			809		
	531349	867658	168899	702501	521247	17177	531321	577619	925080	784781													920308			575934		
	HPMEB66		HPMEC36	HPMEC69	UDMEDS	TIL INITION	HPMFF48	1		HPMEI39													HPMFB02			HPMFB28		

															-												
H0031: 8 and L0581: 2.	H0031: 2	H0031: 2		H0031: 2	H0031: 2		H0031: 2	H0031: 2	H0031: 2, L0438: 2	and L0439: 2.	H0031: 5	AR089: 1, AR061: 1	H0031: 2	H0031: 2, H0644: 1	and L0527: 1.		H0428: 1, H0031: 1,	L0766: 1, L0659: 1,	H0690: 1, L0439: 1,	L0754: 1 and L0756: 1.	H0031: 3	H0031: 2	H0031: 3	H0031: 3	H0031: 4 and L0754:	1.	H0031: 3
		Leu-2 to Glu-8,	Pro-39 to Ser-44.	Gln-14 to Thr-22.	Ser-8 to Ser-14,	Ser-27 to Pro-48.	Pro-38 to Gly-45.		Gln-7 to Ser-12.			Met-43 to Trp-52.		Ala-1 to Lys-6,	Pro-12 to Trp-19,	Met-63 to Lys-68.					Arg-15 to Val-21.	Leu-9 to Ile-17.					Ala-1 to Asn-9,
3497	3498	3499		3500	3501		3502	3503	3504		3505	3506		3507			3508				3509	3510	3511	3512	3513		3514
277 - 465	46 - 234	148 - 291		3 - 158	2 - 214		1 - 183	248 - 460	170 - 487		53 - 559	191 - 346		2 - 205			482 - 631				262 - 444	107 - 427	121 - 348	118 - 261	483 - 692		64 - 342
810	811	812		813	814		815	816	817		818	819		820			821				822	823	824	825	826		827
575620	526594	577593		577633	577636		575941	575943	575932		577588	695656		874359	_		582595				968821	867662	577629	575914	867651		711640
HPMFB37 575620	HPMFB75	HPMFB84		HPMFE35	HPMFE60		HPMFE73	HPMFH21	HPMFJ50		HPMFJ55	HPMFL08	\neg	HPMFL80			HPMFM29				HPMFN12	HPMFP05	HPMFP30	HPMFP38	HPMFQ84		HPMFS41

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		H0031: 4	H0031: 2	H0031: 2	H0031: 2	H0031: 2	H0031: 2		H0031: 5 and L0142:	1.	L0774: 4, H0031: 2,	L0439: 2, L0435: 1,	L0803: 1 and H0670: 1.	H0031: 2	H0031: 2			H0031: 2	H0031: 4	H0031: 2	H0031: 9 and L0758:	1.	H0031: 2		H0031: 2	H0031: 3	H0031: 3, H0651: 1,	L0731: 1 and L0758: 1.
Glu-17 to Glu-22,	Trp-36 to Gln-44.		Tyr-24 to His-32.	Lys-1 to Gly-7.	Phe-15 to Asn-20.	Gln-10 to Gln-20.	Arg-18 to Val-24,	Glu-43 to Gly-54.	Asp-19 to Ser-30.		Leu-34 to Cys-41.				His-1 to His-7,	Ser-16 to Glu-22,	Phe-65 to Ser-71.	Arg-28 to Leu-37.	His-39 to Thr-44.		Gln-6 to Trp-17.		Arg-18 to Ser-29,	Gly-62 to Tyr-78.			Gly-1 to Ser-16,	~;
		3515	3516	3517	3518	3519	3520		3521		3522			3523	3524			3525	3526	3527	3528		3529		3530	3531	3532	
		28 - 180	169 - 300	172 - 312	291 - 25	204 - 365	16 - 246		3 - 152		284 - 412			158 - 355	3 - 218			3 - 206	88 - 243	180 - 320	55 - 381		1 - 306		30 - 353	176 - 340	1 - 564	
		828	829	830	831	832	833		834		835			836	837			838	839	840	841		842		843	844	845	
		916662	575894	652097	575911	956263	590096		932529		275908			867657	577642			577603	968359	506379	920313		703835		867648	873392	954823	
		HPMFT04	HPMFU89	HPMFV28	HPMFV82	HPMFV88	HPMFW25		HPMFW78		HPMFX13				HPMFX70			HPMFX92	HPMGA83	HPMGB22	HPMGC07	- 1	HPMGC23		HPMGE31	HPMGE95	HPMGF06	

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																		138079,	138079,	139191,	142959,	153880,	180104,	600994,	601649		
					20													7p15-p12									
	H0031: 2			H0031: 2	H0031: 2	H0031: 3	H0031: 2	H0031: 2	H0031: 3, L0757: 3,	L0803: 2 and L0766: 1.		H0031: 3 and L0754:	1.	L0805: 5, H0031: 2,	L0749: 2, L0766: 1,	L0776: 1 and L0779: 1.	H0031: 2	H0031: 2								H0031: 2	H0031:2
Arg-44 to Val-50.	Tyr-1 to Ile-7,	Cys-20 to Asp-33,	Leu-40 to Ser-45.				Trp-40 to His-45.		His-18 to Cys-23,	Glu-33 to Phe-40,	Thr-42 to Trp-47, Cys-53 to Glu-63.			Ala-1 to Asn-16,	Lys-45 to Thr-54.												
	3533	٠		3534	3535	3536	3537	3538	3539			3540		3541			3542	3543			٠					3544	3545
	226 - 92			267 - 398	62 - 283	79 - 219	147 - 359	223 - 369	159 - 488			347 - 529		2 - 223	_		189 - 356	24 - 224								46 - 111	230 - 367
	846			847	848	849	850	851	852			853	1	854			855	856								857	858
	51922			577641	924521	920326	864040	575924	671936			730751		854081			577599	506235							1	575951	796440
	HPMGF32			HPMGH16	HPMGI03	HPMGI84	_		HPMGK59			HPMGK62	_	HPMGM33				HPMGR80							十	HPMGS09	HPMGS24

																							,			-		
								19q12	•												-							
H0031: 2	H0031: 2	H0031: 4	H0031: 2	H0031: 2				H0031: 2		H0031: 2	H0031: 2, L0769: 1	and L0439: 1.	H0031: 3		H0031: 2	H0031: 2			H0031: 3	H0031: 1 and H0644:	1.	H0644: 2		H0644: 3	H0644: 2		H0644: 2	H0644: 2 and H0615:
Ser-26 to Trp-32.	His-1 to Glu-6.		Asp-23 to Pro-34.	His-1 to Gln-15,	Arg-37 to Asp-48,	Ser-63 to Pro-77,	Gly-79 to Lys-85.	Ser-2 to Pro-27,	Leu-38 to Asn-52.		Lys-31 to Thr-37.		Gly-1 to Ser-8,	Ile-41 to Ile-49.		Arg-13 to Ala-23,	Met-27 to Gly-36,	Ser-109 to Leu-116.	Arg-1 to Thr-20.			Leu-39 to Ser-46,	Gly-87 to Pro-94.	Gln-42 to Asp-50.	Ile-1 to Gln-10,	Ser-20 to Gln-27.		Glu-15 to Arg-20.
3546	3547	3548	3549	3550				3551		3552	3553		3554		3555	3556			3557	3558		3559		3560	3561		3562	3563
1 - 123	35 - 301	88 - 210	38 - 277	3 - 257				3-314		142 - 294	289 - 552		1 - 147		46 - 198	1 - 441			159 - 1	1 - 267		2 - 370		136 - 330	207 - 425		1 - 171	166 - 276
859	098	861	862	863				864		865	998		298		898	698			870	871		872		873	874		875	876
970815	968364	582596	577635	920309				575903		970813	577595		531382		577631	928433			760426	914759		930844		930806	867587		965642	930873
HPMGT67			HPMGV59	HPMGW48				HPMGX23		HPMHA80	HPMHB74		HPMHB83	_	HPMHC74	HPMHD66 928433			HPMHD71	HPMJC01	_	HPMJC05	_	\neg	HPMJE84	\neg	HPMJF76	HPMJ181

												126650.	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447					
												7q22	•				•••								
1.	AR089: 21, AR061: 15 H0644: 2	H0644: 2			H0644: 2		H0644: 3	H0644: 3	H0644: 2, L0794: 1	and L0748: 1.	H0644: 2	AR061: 2, AR089: 1	L0666: 3, L0777: 2,	L0608: 2, H0046: 1,	H0031: 1, H0644: 1,	L0803: 1, L0783: 1,	H0672: 1, L0740: 1,	L0750: 1 and L0755: 1.			H0644: 2 and L0589: 1.	H0644: 3 and L0471:	7,	H0644: 2 and L0527: 1.	H0644: 2
		Ala-1 to Phe-6,	Thr-32 to Gly-38,	Pro-54 to Gln-73.	Arg-37 to Asn-50,	His-81 to Gln-89.	Tyr-15 to Tyr-21.		Ser-8 to Phe-26.			Arg-15 to Gln-21,	Gln-47 to Ile-53,	Lys-58 to Asp-72.							Arg-2 to Tyr-7.			Leu-36 to Gln-52.	Arg-43 to Ser-48.
	3564	3565			3266		3567	3568	3569		3570	3571									3572	3573		3574	3575
	84 - 470	1 - 222			160 - 429		204 - 353	3 - 203	287 - 454		3 - 125	64 - 567							-		222 - 545	343 - 543		173 - 421	155 - 370
	877	878			879		880	881	887		883	884									882	988	200	/88 8	888
	946876	922649			917419		958001	922657	969478		957997	894416									867573	867533	20,0	918123	922621
	HPMJN59	HPMJ046			HPMJR02		HPMJV08		HPMKB19		HPMKI53	HPMKM81									HPMKN43	HPMLE04	\top	HPMLK02	HPMLK76

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																											70
H0544: 1, H0644: 1	and L0754: 1.	H0044; 2	H0032: 2 and I 0750.	1.	H0032: 2			H0032: 2		L0758: 2, H0688: 1	and H0032: 1.	H0032-2	H0032: 2		H0032: 2	H0032.2	H0032: 2	H0032. 2	H0032. 2	H0032. 2	H0032. 2	H0211.2	H0212: 2 and H0032.	11.	H0032: 1 and H0212:		LU///: 3, LU662: 1,
Gly-4 to Ser-11.		Ser-8 to His 17	Glv-8 to Glu-21.	Val-23 to Ser-37.	Cys-19 to Ser-29,	Ser-31 to Gly-37,	His-48 to Gln-53.	Ser-12 to Gln-18,	Arg-23 to Gly-30.	Gln-13 to Ile-22,	Val-34 to Ser-39.	Arg-23 to Glu-35.	Ile-6 to His-11,	Gly-24 to Val-29.		Ser-13 to Asn-20	Ser-19 to Ser-25	Len-39 to 11e-47					Gln-1 to Glv-7	Thr-22 to Gly-31.		Ara-8 to Dhe_20	AIR-0 IN FIR-2U,
3576	3577	3578	3579		3580			3581		3582	-	3583	3584		3585	3586	3587	3588	3589	3590	3591	3592	3593		3594	3595	2777
1-285	53-211	44 - 226	3-329		87 - 299			191 - 27		1 - 183		98 - 241	91 - 330		192 - 299	178 - 336	2 - 121	3 - 296	3-176	23 - 169	156 - 269	3 - 188	258 - 419		127 - 273	295 - 495	1 2/2
688	890	891	892		893			894		895		968	268		868	668	006	901	902	903	904	905	906		206	806	,
953069	963037	509490	971652		585489			236630		868692		655537	655587		655693	960316	655725	939490	964909	655554	968521	666295	849081		708761	967944	
HPMLL74	HPMLW10	HPMSF86	HPRAE13		HPRAN84			HPRAU45		HPRAZ10		HPRBA65	HPRBE36		HPRBL91	HPRCB11	HPRCB21	HPRCC08	HPRCC61	HPRCN41	HPRCU13	HPRSB16	HPRTL26		HPRTP73	HPVAB11	1

										19a	•																	
1.0803-1.1.0787-1	H0672: 1, S0013: 1 and	C0747: 1.	S0013: 2		L0662: 1, L0774: 1,	L0659: 1, H0672: 1,	S0013: 1 and L0754: 1.	T0069: 1 and S0013: 1.		S0044: 2 and H0618: 1.19q			S0044: 2	AR061: 7, AR089: 3	S0044: 2, L0747: 2,	L0777: 2 and L0480: 1.	S0044: 2		S0044: 2			S0044: 2	S0044: 2			S0044: 2	S0044: 2	S0044: 1 and S0396: 1.
Glv-36 to Lvs-42	-		Arg-4 to Ser-20,	Lys-50 to Glu-60.	Ile-22 to Asn-28.		Ç	Ser-3 to Gly-11,	Thr-42 to Gly-52.	Arg-39 to Asp-55,	Ala-93 to Ser-99,	Pro-102 to Ser-111.	Asn-6 to Trp-17.	His-18 to Pro-24.		1	Ala-7 to Thr-13,	Arg-43 to Arg-49.	Arg-44 to His-50,	Gln-62 to Arg-69,	Gln-80 to Trp-87.	Phe-24 to Thr-29.	Glu-10 to Gln-19,	Gln-22 to Lys-27,	Pro-37 to Val-44.	Leu-4 to Lys-9.	Ser-15 to Ser-22.	Leu-43 to Leu-48.
			3596		3597			3598		3599			3600	3601			3602		3603			3604	3605			3606	3607	3608
		,	108 - 287		2 - 145			204 - 362		116 - 550			19 - 156	655 - 266			66 - 227		14 - 289			197 - 367	2 - 157			236 - 373	215 - 415	513 - 656
			606		910			911		912			· 913	914			915		916			917	918			919	920	921
			655578		753744			525537		655691			655527	908450			655733		867289			657484	655614			655560	655577	514113
		0,1	HPVAF49		HPVAF69			HPVAH36		HPWAF85			HPWAH48	HPWAS77			HPWBA33	_	HPWB084				HPWCJ27		\exists	\neg		HPWDA73

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<u></u>	H0648: 1 and S0044: 1	S0044. 2 and I 0748. 1	S0174· 2	\$0168.7	H0618: 1, H0546: 1	and H0040: 1.	L0777: 3, H0546: 2,	L0803: 2, L0755: 2,	L0637: 1, L0662: 1,	L0794: 1, H0659: 1 and	L0758: 1.	L0800: 2, L0764: 2,	L0779: 2, H0546: 1,	L0351: 1, L0769: 1,	L0771: 1, L0438: 1,	H0660: 1, L0439: 1 and	L0592: 1.	L0731: 3, H0545: 2,	L0744: 2, L0021: 1,	H0546: 1, L0769: 1,	L0666: 1 and L0665: 1.	L0777: 2, L0005: 1,	H0546: 1, H0328: 1.	L0761: 1, L0373: 1,	L0527: 1, L0526: 1,	L0754: 1, L0752: 1,	L0755: 1, L0731: 1 and	L0608: 1.
	Gln-1 to Gly-8, Lys-15 to Ser-23	-72 -22 -22 -22 -										Ser-13 to Ser-19,	Arg-37 to Gly-48.									Gln-1 to Phe-10.						
5344	3609	3610	3611	3612	3613		3614					3615						3616				3617						
53 - 373	15 - 164	193 - 342	74 - 268	138 - 254	2 - 409		638 - 489					1 - 150						2 - 307	_			611 - 826						
2657	922	923	924	925	926	100	176					928						929			383	930]
716228	961529	537333	655713	655591	710354	200302	77550/				007.502	/85439					7,70	111066			20000	20000						
	HPWDA86 961529	HPWDD72	HPWSB35	HPZAB38	HSWAC73	TOWNATION	nowAD39) or drivor	HOWBU80					1101110110	HSWBJ40		•	\neg	IISWBO34						

											_				600964,	02020					
															10p12-p11.2						
H0618: 2, H0038: 1	and H0616: 1.	H0038: 3	H0038: 2	H0038: 3, L0747: 2,	H0618: 1, L0665: 1,	L0779: 1 and L0758: 1.			L0758: 6, H0038: 3,	H0616: 1, L0659: 1 and L0779: 1.		H0038: 11, L0758: 7,	H0038: 1 and H0616:	1.	H0038: 12, H0616: 6,	L0756: 1.	H0038: 11, L0758: 7, L0753: 2 and H0616: 1		H0616: 4, L0758: 2	and H0038: 1.	H0038: 1 and H0616: 1.
Gln-1 to Met-10,	Met-16 to Lys-21, Thr-26 to Met-32.	Pro-53 to Asn-59.	Arg-16 to Thr-28.	Cys-5 to Ser-11,	Pro-13 to Thr-18,	His-28 to Arg-33,	Arg-40 to Arg-45,	Pro-52 to Arg-57, His-66 to Gln-71.			Arg-1 to Pro-9.	Thr-5 to Glu-11.	Val-6 to Lys-13.				Gln-11 to Lys-24, His-60 to Leu-67,	Arg-85 to Ser-92.	Glu-13 to Trp-29,	Thr-31 to Thr-44, Arg-54 to Ser-71.	
3618		3619	3620	3621					3622		5345	3623	3624		3625		3626		3627		3628
34 - 513		1 - 315	50 - 187	1 - 246					87 - 326		330 - 91	238 - 116	199 - 104		423 - 202		3 - 626		10 - 324		2 - 130
931		932	933	934					935		2658	936	937		938	,	939		940		941
923070		537136	504353	961232					835805		954433	537271	787500		536769		963538		966113		783328
HTEAA54 923070		HTEAB52	HTEAD32	HTEAD95					HTEAF07			HTEAF26	HTEAG50	Т	HTEAK57		HTEAL28		HTEAP91		HTEAR84

L0758: 3, H0616: 2	and H0038: 1.	L0758: 3, H0038: 2, L0794: 2 and L0779: 1.	H0038: 2 and H0616:	AR054: 7, AR051: 2, AR089: 1, AR061: 0 L0663: 2, H0038: 1,	H0672: 1 and L0779: 1.	H0038: 2	H0038: 2 and H0616:	1.	H0038: 7, H0253: 1,	H0616: 1 and L0151: 1.					H0038: 2, H0328: 1	and H0616: 1.	H0038: 2 and H0616:	2.	H0038: 1 and H0616:	1.	H0038: 2, H0040: 2	and L0758: 1.	H0038: 2	AR061: 1, AR089: 0
3629 Lys-17 to Lys-26.		Tyr-14 to Ser-19.		Pro-32 to Asn-39.		Asn-28 to Cys-34.	Pro-44 to Ser-50.		Ser-86 to Thr-97,	Gln-104 to Pro-116,	Glu-168 to Ser-182,	Thr-190 to Ser-198,	Glu-208 to Tyr-213,	Ser-230 to Val-237.	Glu-38 to Ala-46.		Ser-39 to Val-49.		Lys-1 to Asn-14.		Lys-24 to Val-32.			Ile-11 to Trp-17,
3629		3630	3631	3632		3633	3634		3635						9898		3637		3638		3639		3640	3641
368 - 520		280 - 143	286 - 501	1 - 321		13 - 252	3 - 152		3 - 971						373 - 540		185 - 334		106 - 552		201 - 359		250 - 417	3 - 356
942		943	944	945		946	947		948						949		950		951		952		953	954
927010		679390	793441	887782		656296	779134		779265						742218		693377		953904		854052		508150	960427
HTEAV43		HTEAY67	HTEAZ54	HTEBC74		HTEBD35	HTEBD40		HTEBJ78						HTEBP39		HTEBS30		HTEBS77		HTEBS80		HTEBX62	HTEBY08

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H0038: 4	H0038: 2	H0616: 3 and H0038:	i				H0038: 2 and H0616: 1.	H0253: 1, H0038: 1 and L0758: 1.	H0038: 2 and H0616: 1.	H0038: 4 and H0616:	H0038: 2 and L0779: 1.	AR061: 596, AR089: 427	H0038: 2, H0616: 1 and L0439: 1	AR061: 49, AR089: 45	H0038: 2, L0748: 2,	L0776: 1, L0659: 1 and	L0663: 1.	H0038: 2
Arg-52 to Glu-65.	Lys-66 to Thr-72.	Arg-1 to Phe-12, Met-34 to I ys-39	Lys-46 to Ser-56,	Pro-72 to Lys-79,	Lys-101 to Asp-107,	1rp-139 to Lys-148.		Glu-9 to Arg-24, Arg-32 to Thr-40.		His-27 to Leu-39.	Glu-8 to Lys-17.	Asn-1 to His-6, Arg-117 to Cys-126						Arg-22 to Tyr-28, Ser-78 to Arg-87.
	3642	3643					3644	3645	3646	3647	3648	3649		3650	3651			3652
	1 - 231	1 - 546					106 - 243	1 - 435	2 - 121	1 - 204	111 - 389	1 - 387		792 - 406	96 - 248			3-311
	955	926					957	958	656	096	961	396		963	964			965
	526281	923026					711523	967340	958381	507053	764416	691116		947605	098802			870692
	HTEBY15	HTEBY28					HTEBY41	HTEBY61	HTEBZ21	HTECA13	HTECA16	HTECA21		HTECA32	HTECA51			HTECA83

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H0038: 3	H0253: 1 and H0038: 1.	H0038: 2 and H0616: 2.	H0038: 1 and H0616: 1.	H0038: 4, H0616: 3,	L0758: 3 and L0779: 1.	H0038: 2 and H0616:	1.	H0038: 2 and H0616:	T10020. J	n0038: 2					H0038: 2		H0038: 2	H0616: 14, H0038: 12,	H0618: 6, H0253: 5.	L0758: 5, L0768: 4	H0411: 2, L0779: 2,	L0151: 1, L0697: 1 and	S0398: 1.	H0038: 2
Tyr-1 to Arg-6, 1e-49 to Val-55.		Arg-1 to Arg-11, Arg-55 to Ser-70, Ser-76 to Glv-81.		Arg-15 to Leu-21,	Ala-29 to Glu-34.	Asn-9 to Asn-16,	Asp-00 to Lys-08.	Gln-18 to Trp-29, Arg-46 to Val-52.	A12 10 to Thr 17	Gh-19 to Gh-28	Thr 36 to Tm 44	1111-30 to 11p-44,	lle-47 to Gly-54,	AIG-01 10 F10-09.	Pro-6 to Cys-11,	Pro-77 to His-92.		Arg-1 to Ala-35,	Gly-41 to Lys-61.	•				Val-9 to His-36.
3653	3654	3655	3656	3657		3658		3659	3660	000				0000	3661		3662	3663						3664
32 - 271	61 - 270	763 - 1005	1 - 147	203 - 463		84 - 287		37 - 459	1 - 207	107-1				,0,	138 - 491		154 - 411	2 - 508						1 - 141
996	196	896	696	970		971		972	973					27.7	4/4		975	926						977
921070	971673	963353	508143	844558		790937		796820	508138	2000				, 100,00	478/66		508108	973163						518124
HTECB21	HTECC13	HTECC20	HTECC37	HTECC38		HTECC66		HTECC80	HTECCR5					Т	HIECCYG			HTECD18					\neg	HTECD36

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	L0779: 2, H0616: 1 and 1.0758: 1	H0616: 4, H0038· 2	and 1 0758 1	4114 EO 705 1.			H0038: 2	H0038: 8, L0758: 5,	L0794: 4, H0616: 2,	L0763: 1 and L0777: 1.	L0766: 2, H0038: 1	and H0616: 1.	H0038: 2		H0038: 2	H0038: 2		H0038: 2			H0616: 2 and H0038:			_		H0038: 2	H0038: 2	
(CT 977 CT)	Lys-19 to Lys-36.	Gly-2 to Ala-8.	oc		FIO-23 to Ser-34,	Pro-45 to Asp-55.	Ile-1 to Gly-9.	Ser-29 to Gly-35,	Asp-85 to Val-92.				Ile-1 to Arg-13,	Glu-25 to Leu-31.		Glu-1 to Thr-6,	Glu-30 to Met-43.	Gly-2 to Arg-19,	Arg-24 to Gly-29,	Lys-48 to Arg-54.	Asn-37 to Val-42,	Lys-82 to Glu-95,	Glu-100 to Leu-105,	Tyr-114 to Ser-120,	Leu-129 to Lys-134.		Gln-61 to Cys-76,	lle-95 to Asp-111.
)	_	3666					3667	8998			3669		3670		3671	3672		3673			3674		_	_		3675	3676	
		3-275					2 - 286	2 - 286			2 - 352		2 - 253		3 - 296	123 - 257		3 - 164			2 - 418					141 - 329	1 - 423	
0/6		626					086	981			982		983		984	985		986			284					988	686	
107/70		727422					620494	764830			790894		522983		522984	522964		252966			964734					522973	925527	
107/70 70000111		HTECD75					HTECE09	HTECE44			HIECE45		HTECE69		HTECE91	HTEDF13		HTEDF23			HTEDF57					HTEDF76	HTEDG16	

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					 -									136350,	152760,	173370,	180100,	182900,	185430,	270800,	277700,	/10000
					-11									8p12-p11.2								
H0616: 2 and H0038:	H0038: 3	H0038: 2, H0616: 2, L0769: 1, L0794: 1,	H0038: 1 and H0616:	AR061: 14, AR089: 12	H0618: 2, H0634: 2, H0038: 1, H0616: 1 and	L0758: 1.	H0038: 2, H0616: 2,	H0038: 3	H0038- 2	1 0740: 2 HOK15: 1	H0428: 1, H0038: 1.	L0662: 1, L0805: 1,	L0661: 1 and L0751: 1.	H0038: 2 and H0616:								
	Arg-1 to Glu-9, Thr-42 to Arg-49	D	Asn-1 to Ser-14, Glu-103 to Glv-108	Glu-7 to Lys-13,	Asp-29 to Leu-34, His-83 to Pro-91,	Ser-106 to Thr-111.	Lys-18 to Arg-24, Pro-30 to Thr-35	Pro-20 to Thr-29.						Pro-31 to Ala-40.								
3677	3678	3679	3680	3681			3682	3683	3684	3685				3686								
169 - 324	3 - 170	33 - 206	1 - 411	121 - 705			65 - 544	274 - 549	43 - 165	3 - 305		•		3 - 257								
066	991	992	993	994			995	966	266	866				999								
761752	522764	522765	957762	921243			932292	536477	519940	771404		•		960303								
	HTEDH21	HTEDH22	HTEDHS4	HTEDI02			HTEDI16	HTEDI82	HTEDJ04	HTEDJ30			TALLES CO.	HIEDWOS								

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H0038: 2	H0038: 2	H0553: 1 and H0038:	H0038: 4	H0038: 1 and H0616:	1.	H0038: 2	H0038: 2	AR061: 7, AR089: 3	L0758: 4, H0038: 2	and H0616: 1.	H0616: 2, H0038: 1	and L0758: 1.			H0038: 2	L0070: 2, H0038: 1	and H0616: 1.	H0038: 2	•	L0731: 6, L0758: 3,	H0618: 1, H0038: 1 and	L0794: 1.	H0038: 2 and H0616:	2.	H0038: 2	H0038: 3, L0438: 2,
Pro-1 to Trp-9, Pro-25 to Lys-31.	Arg-8 to Ser-20.					Ser-9 to Ala-15.			-		Pro-11 to Cys-28,	Ser-41 to Leu-55,	Pro-58 to Asn-63,	Phe-67 to Ser-77.				Ala-25 to Thr-32,	Lys-46 to Gly-52.	Ile-2 to Gly-8.			Lys-16 to Ser-22.			Phe-37 to Ser-49.
3687	3688	3689	3690	3691		3692	3693	3694			3695				3696	3697		3698		3699			3700		3701	3702
101 - 271	3 - 164	130 - 231	1 - 321	68 - 337		152 - 322	1 - 345	3 - 206			53 - 475				318 - 494	88 - 171		53 - 238		137 - 706			2 - 730		3 - 164	324 - 566
1000	1001	1002	1003	1004		1005	1006	1007			1008				1009	1010		1011		1012			1013		1014	1015
870711	530592	964379	870675	870548		839532	536821	530589			795332				530586	761585		530451		820028			932315		921114	523959
нтерозі	HTED051	HTEDOS9	HTEDP15	HTEDP31			HTEDP83	нтер030			HTEDQ72				HTEDQ83	HTEDR71		HTEDR91		HTEDU45		7	HTEDU48			HTEDX22

H0616: 1 and L0439: 1.	H0038: 2	TINCIC D TITOGRA	H0616: 2 and H0038: 1.	H0616: 3, L0759: 3,	H0038: 1, L0774: 1 and	H0038-2	H0169: 2 and H0038:	1.	H0038: 2 and L0779:	1.	H0038: 5 and H0618:	1.				H0038: 2 and H0616:		H0038: 2, L0758: 2	and L0779: 1.	H0038: 2				H0038: 3	H0038: 2
	Arg-1 to Asn-13,	INICI-3/ 10 FIG-4/.	Lys-28 to Lys-41.	Asp-67 to Asn-72,	Pro-113 to Gly-121.	Gh-11 to Gh-18	His-1 to His-10.		Gln-9 to Asn-26.		His-19 to Lys-55,	Pro-72 to Ser-84,	Ser-92 to Gly-104,	Ser-111 to Asp-124,	Thr-129 to His-141.	Ser-1 to Gly-14,	Lys-28 to Ser-37.			Pro-5 to Gln-13,	Thr-40 to Arg-45,	Thr-52 to Gln-57,	Phe-59 to Gly-64.	Glu-9 to Val-15, Glu-24 to Pro-30.	Pro-8 to Leu-13.
	3703	2704	3/04	3705		3706	3707		3708		3709					3710		3711		3712				3713	3714
	172 - 357	3 140	3 - 140	151 - 762		189 - 326	86 - 199		271 - 549		100 - 615					1 - 216		202 - 384		88 - 345				72 - 215	2 - 328
	1016	1017	101/	1018		1019	1020		1021	.000	1022					1023		1024		1025				1026	1027
	530452	771505	0.1177	922964		530580	925399		523962	- 0,00	924818					968517		530157		924840				507814	524059
	HTEDX55	HTEDV38	nieDi38	HTEDY54		HTEDY57	HTEEA03		HTEEB18	oo diddidaa	HIEEB33					HTEEC10		HTEEE65		HTEEF31				нтеенз1	HTEEU23

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H0038: 1 and H0616:		H0038: 3		H0038: 2 and L0779:			H0038: 2	H0038: 4, L0779: 2,	L0758: 2 and L0618: 1.	H0038: 2	H0038: 2	H0616: 2 and H0038:	1.	H0038: 2 and H0616:	H0038: 2	H0038: 1 and H0616: 1.	H0038: 4 and H0616:	L0776: 3 and H0038: 2.	H0038: 3	H0038: 1 and H0616: 1.	H0038: 2	H0616: 4 and H0038: 1.
Pro-32 to Asp-39,	Lys-57 to Gly-65.	Ser-1 to Ser-8,	Ser-11 to Trp-19.	Asn-2 to Lys-8,	Lys-16 to Asp-23,	Arg-28 to His-51.	Pro-24 to Ala-38.								Phe-3 to Val-24.			Met-41 to Ile-46.	Arg-1 to Gln-22.			
3715		3716		3717			3718	3719		3720	3721	3722		3723	3724	3725	3726	3727	3728	3729	3730	3731
128 - 343		106 - 240		136 - 393			48 - 311	55 - 507	•	1 - 147	103 - 222	298 - 429		266 - 493	150 - 73	240 - 416	3 - 260	124 - 321	119 - 352	1 - 168	118 - 195	273 - 662
1028		1029		1030			1031	1032		1033	1034	1035		1036	1037	1038	1039	1040	1041	1042	1043	1044
530199		698315		960127			523957	917206		530095	935982	771355		959854	529272	770270	62639	507219	711399	836010	920604	787550
HTEEU52		HTEEU88		HTEEU92			HTEEV53	HTEEW73		HTEEZ95	HTEF153	HTEFM31		HTEFN15	HTEFO32	HTEFO76	HTEFP14	HTEFP50	HTEFP61	HTEFS60	HTEFU46	HTEFW55

																										602782		
							2q37.3																			11925	4	
H0038: 2 and H0616:	-		H0038: 1 and H0616:	1.		H0038: 3	H0038: 3	5,	H0618: 1, H0253: 1,	L0151: 1 and L0768: 1.	H0038: 2	H0038: 2, L0779: 2	and L0758: 2.			H0038: 1 and H0616:			H0038: 2	H0038: 2	H0038: 1 and H0616:		H0038: 2	H0038: 2	H0038: 2	AR089: 1, AR061: 0 11q25	H0038: 2	H0038: 2
Arg-1 to Asp-7,	Trp-24 to Cys-29,	Ser-68 to Ile-73.	Arg-3 to Leu-10,	Gln-34 to Glu-41,	Ile-48 to Ser-53.	Lys-1 to Thr-6.		Val-11 to Ser-19.			Lys-7 to Tyr-19.	Lys-6 to Lys-16,	Arg-44 to Gln-51,	Asn-57 to Phe-63,	Ser-84 to Trp-89.	Gln-6 to Ser-11,	Ser-15 to Gly-31,	Ser-69 to Lys-93.	Asn-1 to Pro-9.	Thr-1 to Ala-7.	Glu-25 to Trp-31,	Lys-49 to Ser-54.			Pro-13 to Lys-25.	Ala-15 to Tyr-24,	His-32 to Asp-39.	Asn-38 to Glu-47.
3732			3733			3734	3735	3736			3737	3738				3739			3740	3741	3742		3743	3744	3745	3746		3747
35 - 358			1 - 279			268 - 35	2 - 139	2 - 1519			190 - 306	2 - 298				190 - 468			2 - 334	210 - 407	76 - 267		144 - 335	2 - 217	3 - 143	84 - 263		1 - 183
1045			1046			1047	1048	1049			1050	1051				1052			1053	1054	1055		1056	1057	1058	1059		1060
528019			1901961			842047	656077	964198			715583	503300				869296			528017	614242	2099967		954115	528007	520046	280529		520037
HTEFW56 528019			HTEFW78			HTEFX53	HTEGA13	HTEGA17			HTEGA43	HTEGA47				HTEGD11	-		HTEGE44	HTEGF78	HTEGF95		HTEGG07	HTEGG61	HTEGK51	HTEGM38		HTEGN63

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AR089: 1, AR061: 0	H0038: 2, L0745: 2	L0794: 15, H0616: 13.	H0038: 7, H0253: 1 and	L0758: 1.	H0038: 2		H0038: 2	H0038: 3	H0038: 2	H0038: 2, L0758: 2,	H0294: 1 and H0616: 1.	H0038: 2	H0038: 3 and L0758:	1.	H0038: 2 and L0758:	2.	H0038: 3 and H0616:	1.	H0253: 8, H0038: 2,	H0179: 1, L0151: 1 and	L0758: 1.	H0038: 2 and H0616:		H0038: 8, L0758: 5,	L0794: 4, H0616: 2,	L0763: 1 and L0777: 1.	H0038: 2
Pro-12 to Tyr-21.		Lys-28 to Lys-34,	Glu-42 to Ser-48,	Ser-53 to Phe-63.	Val-3 to Ser-8,	Cys-35 to Lys-45.	Glu-8 to Ile-22.			Pro-35 to Glu-43,	Gly-52 to His-57.		Arg-1 to Thr-11.				Ala-1 to Tyr-14,	Thr-28 to Ser-60.	Asn-44 to Asp-49,	Ala-91 to Thr-97.							Thr-14 to Gln-20,
3748		3749			3750		3751	3752	3753	3754		3755	3756		3757		3758		3759			3760	100	3761			3762
3 - 884		134 - 433			2 - 187		23 - 196	160 - 402	131 - 352	220 - 405		155 - 355	200 - 367		170 - 463		2 - 205		39 - 206			3 - 98	101	194 - 595			220 - 399
1061		1062			1063		1064	1065	1066	1067		1068	1069		1070		1071		1072			1073	1074	10/4			1075
932583		923059			298675		959871	871611	527914	458520		506653	820028		716783		520041		524053			573885	77.4021	/04831			959888
HTEGO05		HTEGQ21			HTEGQ74		HTEGR56	HTEGR88	HTEGS16	HTEGS34		HTEGS93	HTEGT29	Т	HTEGT33		HTEGU13	T	HTEGU32	-		HTEGU62	T	HIEGOSS			HTEGV08

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			20q13.2-q13.3 118504, 118504, 131242, 139320, 139320,	139320, 139320, 602025,								
			20q13.2-q1									
	H0038: 1 and H0616:	L0758: 8, H0038: 3, H0618: 2, H0616: 2 and H0253: 1.	H0038: 2		H0038: 3 and H0616: 2.	L0758: 5, H0038: 3, H0618: 1, H0616: 1,	H0038: 1 and H0616:	H0038: 2	H0038: 5	AR050: 13, AR051:	13, AR061: 3, AR054:	L0758: 5, H0616: 2
Cys-23 to Glu-31.	Tyr-12 to Phe-17, Pro-32 to Asp-39.	•	Ser-24 to Gln-30, Asn-38 to Leu-44, Pro-46 to Glu-59.		Gly-1 to Ile-7, Pro-76 to Ala-82, Asn-86 to Ile-91.	Asn-1 to Asp-9, Pro-17 to Cys-23.	Arg-87 to Tyr-92.		Gly-23 to Lys-29.	Ser-32 to Thr-37,	Ser-161 to Cys-167.	
	3763	3764	3765		3766	3767	3768	3769	3770	3772		
	80 - 418	234 - 449	1 - 243		1 - 351	200 - 556	2 - 388	91 - 312	90 - 350	719 - 84		
	1076	1077	1078		1079	1080	1081	1082	1083	1085		
	822954	870240	573880		794350	783829	917214	573849	526704	973071		
	HTEGV60	HTEGV84	HTEGW41		HTEGW94	HTEGX74	HTEGY01	HTEGY85	HTEHC20	HTEHC47		

and H0038: 1.	H0616: 3 and H0038: 2.	H0038: 2	H0038: 1 and H0616:	H0616: 2, H0038: 1 and L0794: 1		H0038: 3 and L0519: 1.	H0038: 2				H0038: 2 and H0616:	H0038: 4	H0618: 1, L0023: 1,	H0038: 1, H0616: 1 and L0758: 1.	L0758: 3, H0038: 2 and L0747: 1.
	Thr-44 to Ala-49, Pro-60 to Arg-67, Asp-83 to 1 xe-95	Ala-1 to Leu-9, Thr-11 to Gly-19, Arg-31 to Thr-39,	Glu-57 to Pro-63.	Ala-2 to Asn-7, Glu-47 to Ile-62.	Pro-71 to Trp-81, Gly-83 to Glu-88.	Ser-1 to Arg-6, Gly-16 to Glu-26.	Gln-1 to Asp-17,	Ser-51 to Arg-63,	Pro-70 to Asp-78,	Val-80 to Ash-93, Pro-100 to Asp-105.		Ala-8 to Asp-95.			His-16 to Ser-22, Ala-77 to Glu-83.
	3773	3774	3775	3776		3777	3778				3779	3780	3781		3782
	74 - 358	2 - 256	2 - 223	143 - 652	:	194 - 301	3 - 329				201 - 332	2 - 436	57 - 695		262 - 534
	1086	1087	1088	1089		1090	1001				1092	1093	1094		1095
	866596	573882	795264	784926	-	932312	790342				667224	836999	933624		935984
	нтенс60	HTEHC78	нтене60	нтене67		HTEHE78	нтене91				HTEHF13	HTEHF66	HTEHG44		нтен106

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AR089: 5, AR061: 5	H0038: 4	H0038: 2		H0038: 2 and H0616:	H0038: 3	H0038: 2	H0038: 4	H0038: 2	H0038: 2		H0038: 2				H0616: 2, H0038: 1	and T0069: 1.								H0038: 2 and H0616:	2.	L0758: 3, H0038: 2,	H0616: 2 and L0794: 1.	
		Arg-1 to Gly-9,	Pro-50 to Ala-56.		Lys-9 to Pro-14.		Thr-16 to Met-39.		Gln-2 to Leu-8,	Asp-42 to Gly-47.	Glu-17 to Trp-27,	Leu-29 to Phe-34,	Leu-56 to Arg-61,	Asn-74 to Gly-83.	Pro-9 to Asp-16,	Gln-30 to Gln-36,	Pro-69 to Ile-74,	Val-78 to Pro-87,	Ala-99 to Lys-112,	Lys-117 to Gly-124,	Lys-130 to Val-147,	Ala-151 to Phe-156,	Lys-180 to Asp-186.	Glu-13 to Pro-27,	Leu-30 to Arg-37.	Lys-5 to Glu-14,	Arg-53 to Lys-60,	Met-77 to Gln-83.
3783		3784		3785	3786	3787	3788	3789	3790		3791				3792									3793		3794		
216 - 458		3 - 350		1 - 282	1 - 330	136 - 249	2 - 301	2 - 274	73 - 231		3 - 404				63 - 677									66 - 215		37 - 285		
1096		1097		1098	1099	1100	1101	1102	1103		1104				1105				_					1106		1107		
526687		233960		922559	870629	530749	928099	771432	573866		573859	•	•		787521									920625		967443		
HTEHI14		HTEHI54		HTEHI62	нтения	HTEHJ64	HTEHK40	HTEHK70	HTEHK81		HTEHL96				HTEHOS6									HTEHP02		HTEHP20		

H0038: 3	H0038: 2	H0616: 2, H0038: 1 and L0758: 1.	H0038: 2					H0038: 2	AR061: 5, AR089: 2	H0038: 2	H0038: 2, H0616: 2	and L0758: 2.	H0038: 1 and H0616:	1.	H0038: 2	AR061: 8, AR089: 3	L0780: 3, L0759: 3,	H0038: 2, L0779: 2,	H0673: 1, L0803: 1,	L0804: 1, L0666: 1 and	H0648: 1.	H0038: 1 and H0616:			H0038: 2	H0038: 3, L0740: 2 and L0748: 1.
Arg-2 to Arg-17.	Glu-18 to Ser-26.	•	His-1 to Ser-8,	Asp-15 to Gln-50,	Val-54 to Ser-67,	Glu-76 to Lys-86,	Ala-90 to Arg-105.	Phe-43 to Glu-49.	Gly-70 to Gly-75.				Lys-1 to Arg-6,	Glu-23 to Arg-29.		Phe-32 to Asn-37,	Phe-73 to Tyr-79.					Ala-1 to Gly-8,	Ser-52 to Lys-58,	Leu-81 to Asn-86.		
3795	3796	3797	3798					3799	3800		3801		3802		3803	3804						3805			3806	3807
7 - 126	210 - 434	1 - 135	3 - 320					3 - 197	1 - 237		61 - 234		109 - 294		76 - 276	1 - 357						2 - 466			181 - 453	2 - 163
1108	1109	1110	1111					1112	1113		1114	}	1115		1116	1117				-		1118			1119	1120
531505	573853	751866	573830					573841	529280		573813		786378		870083	920610					2027202	7,82652			924832	760552
HTEHP50	HTEHP60	HTEHP67	HTEHP80					HTEHR83	HTEHS19		HTEHU20		HTEHU68		HTEHU73	HTEHV72					TITEIN	HIEHV80				HTEHW21

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							256850					_														
							16q24.1	•																		
H0616: 3, H0038: 2 and L0758: 1.		L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and	H0253: 1.	H0038: 2	H0038: 3	H0618: 2, H0038: 1	and L0783: 1.	H0038: 3	AR061: 7, AR089: 4	H0038: 4, H0616: 3,	L0747: 3, L0663: 2,	L0758: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0038: 4 and H0616:	.4		H0038: 2	H0038: 3	H0038: 2	H0038; 3 and H0616:	1.
Pro-4 to Lys-14, Thr-17 to His-22, Glu-25 to Arg-49,	Pro-78 to Gly-85, Pro-120 to Phe-126.	Arg-19 to Asn-24,	Gly-30 to Gln-47.							Gln-1 to Ser-10,	Arg-18 to Thr-27,	Arg-36 to Gln-65.							His-16 to Ser-21,	Ser-33 to Gly-60,	Asp-87 to Glu-95.	Ser-5 to IIe-17.	Leu-41 to Arg-55.		Thr-65 to Thr-71,	Arg-92 to Glu-99.
3808		3809			3810	3811	3812		3813	3814									3815			3816	3817	3818	3819	
15 - 410		3 - 215			84 - 212	17 - 292	2 - 343		10 - 225	3 - 308									173 - 457			139 - 249	135 - 326	58 - 192	3-311	
1121		1122			1123	1124	1125		1126	1127									1128			1129	1130	1131	1132	
924826		772643			668553	527167	859130		721831	963099									958355			573828	699470	573826	520113	
HTEHX03		HTEHX32			HTEHX51	нтенх92	HTEIA60		HTEIA80	HTEIB14									HTEFF40			HTEIF68	HTEIG32	HTEIH70	HTEIJ17	

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H0038: 1, H0616: 1 and L0731: 1.	H0038: 1 and H0616: 1.	H0038: 1 and H0616:	H0038: 2 and H0032: 1.	H0038: 2	H0038: 1 and H0616:	Ψ.	AR061: 1, AR089: 0	L0/58: 4, L0617: 2,	LU/94: 2, HU253: 1,	H0038: 1, H0616: 1,	L0789: 1 and L0779: 1.	H0038: 3	H0038: 2				H0616: 2 and H0038:		H0038: 2			H0038: 1 and H0616: 1.
Ser-7 to IIe-13, Arg-21 to His-26, Met-33 to Ser-49.	Pro-38 to Gln-54.		His-8 to Ala-24, Thr-26 to Lys-33.	Thr-24 to Thr-39.	Thr-41 to Lys-46,	11 D 11 D-02.	Glu-13 to Thr-27.						Lys-15 to Lys-29,	Lys-36 to Thr-42,	Val-48 to Thr-55,	Gln-61 to Glu-80.	Gly-1 to Gly-6,	Leu-28 to Asn-33.	Gly-1 to Gly-6,	Pro-12 to Pro-17,	Arg-27 to Pro-40.	Asn-28 to Asn-33.
3820	3821	3822	3823	3824	3825		3826					3827	3828				3829		3830			3831
1 - 186	40 - 255	1 - 69	149 - 409	2 - 121	104 - 292		42 - 443					83 - 271	2 - 331				1 - 246		74 - 346	-		159 - 545
1133	1134	1135	1136	1137	1138		1139					1140	1141				1142		1143			1144
712520	958241	772402	967431	530454	789121		953803					523681	520045				760551		753210			839884
HTEIJ41	HTEIJ73	HTEIJ77	HTEIK11	HTEIK70	HTEIK90		HTEIL07					HTELL48	HTEIL70				HTEIL71		HTEIN68			HTEIN95

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H0038: 2 and H0616:	H0038: 3	H0038: 2	AR089: 1, AR061: 0	H0038: 2 and H0253:	1.	H0038: 4	H0038: 1 and H0616:	H0616-5 H0038-2	and H0253: 1			H0038: 2	H0038: 1 and H0616:	<u> </u>	AR061: 3, AR089: 1	H0038: 3	H0616: 8, L0751: 6,	L0753: 6, L0776: 4,	L0758: 4, H0038: 3,	L0759: 2, S0222: 1,	L0770: 1, L0779: 1,	L0731: 1 and L0608: 1.	L0779: 2, H0038: 1	and H0616: 1.		
His-1 to Arg-11.	Phe-27 to Glu-39.		Met-23 to Thr-30.				Lys-1 to Trp-10.	Arg-24 to Ghr-38	Arg-46 to Ser-52,	Pro-74 to Glu-80,	Pro-118 to Ser-126.	Glu-15 to Lys-29.			Asp-5 to Arg-13,	Thr-37 to Ser-45.	Ala-1 to Arg-9,	Thr-14 to Trp-20,	Arg-46 to His-53,	Pro-58 to Glu-67,	Tyr-80 to Pro-86,	Ile-151 to Pro-160.	Arg-16 to Ser-23,	Cys-30 to Arg-35,	Arg-51 to Arg-57,	Gly-62 to Thr-68.
3832	3833	3834	3835		7000	3830	3837	3838				3839	3840		3841		3842						3843			
3 - 347	152 - 334	159 - 356	1 - 252		104 270	194 - 570	232 - 462	41 - 472				300 - 458	305 - 547		1 - 339		2 - 712				-		1 - 231			
1145	1146	1147	1148		1140	1143	1150	1151				1152	1153		1154		1155						1156			
920622	653244	573803	941155		573807	250575	765794	928058				573775	779163		870652		922027	***	-				784657			
HTEI002	HTEI012	HTEI028	HTEIP88		HTRIDO2	THE STATE	HTEIQ74	HTEIR33				HTEIS65	HTEIU75		HTEIU92	- 1	HTEIV54						HTEIV86			

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H0038: 6 and H0616: 1.	H0038: 2	H0038: 2, L0758: 2,	I.0438: 1. H0658: 1 and	L0756: 1.	H0038: 2	H0038: 1 and H0616: 1.	H0038: 2		H0038: 3 and L0758:	-			H0038: 3, H0616: 1	and L0758: 1.	H0038: 2	H0038: 2	H0038: 2	H0038: 2 and H0616:	1.	H0616: 2 and H0038:	AR061: 4, AR089: 1	L0758: 7, L0794: 4,	H0038: 2 and L0791: 1.	H0038: 2
		His-33 to Gly-42.				Gly-43 to Ser-48.	Pro-7 to Pro-20,	Pro-33 to Leu-49.	Thr-7 to Glu-16,	Lys-24 to Asp-34,	Thr-40 to Glu-48,	Leu-52 to Lys-57.					Gly-47 to Ile-53.	Trp-14 to Glu-21,	Gly-29 to Arg-36.					Lys-9 to Lys-23,
3844	3845	3846			3847	3848	3849		3850				3851	,	3852	3853	3854	3855		3856	3857			3858
124 - 423	68 - 352	204 - 554			2 - 226	58 - 216	2 - 355		188 - 460				144 - 386		115 - 348	216 - 377	3 - 269	167 - 304		156 - 377	2-319			2 - 424
1157	1158	1159			1160	1161	1162		1163				1164		1165	1166	1167	1168		1169	1170			1171
829698	573891	836011			864251	963536	241183		955242				523764		528015	530590	870644	573774		772989	098306			520049
HTEIW27	HTEIW37	HTEIX28			HTEIX85	HTEIY52	HTEIY69		HTEIY80				HTEIZ76		HTEJB20	HTEJB25	HTEJB81	HTEJC28		HTEJC95	HTEJE15			HTEJES0

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	AR089: 21, AR061: 15 H0038: 2		H0038: 2	H0038: 2 and H0616:	1.	L0758: 12, L0794: 6,	H0038: 2, L0789: 2,	L0752: 2, L0803: 1 and	L0779: 1.	H0038: 1 and H0616:	1.	H0038: 2 and H0616:	1.		H0038: 2	H0038: 2	H0038: 2	H0038: 1 and H0616:	1.	H0415: 1 and H0038:	1.	H0038: 2 and L0747:	-		H0038: 2	H0038: 2 and H0616:	1.
Lys-30 to Lys-35.	Ser-11 to Ala-19, Glu-24 to I eu-33	Pro-37 to Pro-45.				Gly-1 to Leu-9,	Cys-15 to Arg-26,	Pro-44 to Arg-50.		Thr-17 to Ala-24.		Thr-1 to Trp-9,	Glu-12 to Arg-17,	Pro-23 to Gln-40.		Thr-13 to Asn-19.	His-1 to Cys-7.			Gln-12 to Ser-20.		His-1 to Ser-15,	Glu-29 to Lys-46,	Pro-51 to Gln-63.	Pro-14 to Ser-31.	Lys-1 to Ser-6,	Glu-22 to Ser-28,
	3859		3860	3861		3862				3863		3864			3865	3866	3867	3868		3869		3870			3871	3872	
	122 - 643		927 - 62	148 - 384		415 - 173				115 - 294		63 - 368			1 - 126	169 - 354	2 - 418	475 - 645		1 - 534		3 - 194			1 - 450	1 - 219	
	1172	:	1173	1174		1175				1176		1177			1178	1179	1180	1181		1182		1183			1184	1185	
	942476		526278	774243		573742				952255		688386			558383	573845	914785	916481		767955		530596			676254	573823	
	HTEJF45		HTEJG24	HTEJJ43		HTEJL21				HTEJM56		HTEJN10			HTEJN49	HTEJN96	HTEJP10	HTEJP66		HTEJP71		HTEJT37			HTEJT74	HTEJU30	

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	H0038: 2	H0038: 2					H0616: 3, H0038: 2	and H0658: 1.	L0758: 4, L0779: 3 and	H0038: 2.	H0038: 2 and H0616:		H0038: 2		H0038: 2		H0038: 5		H0616: 2 and H0038:	1.	H0038: 2 and H0618:	1.	H0616: 3 and H0038:	7.	L0758: 5, H0616: 3	and H0038: 2.		
Ser-48 to Arg-56.	Gly-11 to Thr-17.	Glu-2 to Thr-11,	Asn-35 to Gly-41,	Thr-57 to Asn-63,	Pro-73 to Glu-88,	Pro-101 to Phe-110.	Pro-9 to Trp-16,	Trp-18 to Gly-25.	Arg-3 to Ala-10,	Asp-25 to Trp-31.	Ala-1 to Pro-7,	Arg-13 to Ser-22.	Arg-1 to Pro-12,	Trp-42 to Thr-47.	Gly-1 to Trp-6,	Pro-12 to Ser-20.	Arg-7 to Ser-12,	Trp-36 to Pro-60.	Glu-29 to Ser-36,	Cys-49 to Thr-71.	Pro-22 to His-28.		Glu-19 to Tyr-36,	Glu-48 to Lys-53.	Phe-1 to Gly-19,	Gln-21 to Glu-31,	Arg-79 to Lys-92,	Ser-135 to Leu-145.
	3873	3874					3875		3876		3877		3878		3879		3880		3881		3882		3883		3884			
	23 - 337	2 - 388					3 - 440		1 - 252		2 - 121		76 - 402		1 - 291		147 - 338		103 - 315		753 - 1043		130 - 438		1 - 594		₋	
	1186	1187					1188		1189		1190		1191		1192		1193		1194		1195		1196		1197		•	
	694525	806395					530156		685272		523818		920925		815975		519938		974044		870084		790381		774260			
	HTEJV62	HTEJX78					HTEJY21		HTEJY27		HTEJZ26		HTEKC07		HTEKC12		HTEKD04		HTEKE41		HTEKE46		HIEKE80		HTEKF04			

		_			_	_	_	_	_																					
102770,	188540,	600234,	601414,	601691,	601601	001001,	001091,	601691,	K01718	602094														•						
1p13										-																				
H0038: 2							-	-			H0038: 2			H0038: 2 and H0616:	1.	H0038: 2	H0038: 3, L0758: 2,	H0253: 1, H0616: 1,	L0794: 1, L0803: 1.	L0745: 1 and L0588: 1.	H0038: 2				H0038: 3 and H0616:		H0038: 1 and H0616:	1.	H0038: 2	H0038: 1 and H0616:
Arg-43 to Phe-48.											Pro-28 to Gly-33,	Asp-35 to Leu-51,	Leu-61 to Thr-69.	Glu-12 to Glu-19.			Ala-24 to Tyr-31,	Gln-38 to Lys-43.			Pro-7 to Gln-16,	Arg-19 to Gly-32,	Pro-34 to Glu-45,	Phe-56 to Leu-65.	Lys-34 to Ala-42.		Pro-8 to Thr-14.			Lys-62 to Ser-67.
3885											3886			3887		3888	3889				3890				3891		3892		3893	3894
103 - 267											27 - 233			1 - 291		3 - 344	257 - 682				2 - 247				1 - 264		3 - 251		31 - 165	348 - 569
1198											1199			1200		1201	1202				1203				1204		1205		1206	1207
573750					_						573749			772997		917176	503039				530588				745257		723148		870627	784444
HTEKF24											HTEKF35			HTEKF68		HTEKI01	HTEKI70				HTEKJ48			_	HTEKM14	\neg	HTEKO49	- 1	- 1	HTEKQ85

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																					į					
1.	H0038: 1 and H0616: 1.	H0038: 2	AR061: 2, AR089: 1	L0758: 14, H0038: 5,	L0779: 4, L0794: 2 and	H0616: 1.		H0618: 3, H0253: 1	and H0038: 1.		H0038: 1 and H0616:	1.	H0038: 1 and H0616:	1.	L0758: 10, H0038: 3,	L0794: 2, H0618: 1,	H0253: 1 and H0616: 1.	H0038: 2 and L0758:	1.	H0038: 2	H0038: 2		H0616: 4, L0803: 1	and L0731: 1.	H0616: 3 and L0519:	۴.
			Pro-9 to Arg-14,	Phe-34 to Ile-39,	Arg-41 to Lys-47,	Leu-49 to Gly-55,	Lys-104 to Lys-110, Asp-119 to Gly-124.	Val-1 to Val-8,	Arg-36 to Pro-41,	Thr-50 to Leu-55.	Ser-9 to Ser-17,	Leu-48 to Cys-54.	Gly-46 to Glu-58.		Glu-37 to Asp-46.						Ile-9 to Asn-20,	Ala-22 to Asp-29.	Lys-8 to Lys-14.	•		
	3895	3896	3897					3898			3899		3900		3901			3902		3903	3904		3905		3906	
	139 - 318	290 - 427	3 - 569					113 - 346			166 - 399		87 - 263		118 - 375			108 - 257		68 - 259	98 - 280		49 - 195		165 - 536	
	1208	1209	1210					1211			1212		1213		1214			1215		1216	1217		1218		1219	
	870555	529273	846714					506651			767658		935945		928656			920927		573700	524054		774268		934272	
	HTEKR75	HTEKS15	HTEKS20					HTEKS21			HTEKS76		HTEKX06		HTEKX08			HTEKX28		HTEKX70	HTEKZ50		HTELA50		HTELD47	

																					18	
H0616: 2	H0616: 3	H0616: 5	H0038: 1 and H0616:	H0616: 2 and H0038:			H0616: 2	H0038: 1, H0616: 1	and L0745: 1.	H0038: 1 and H0616:	1.	H0616: 2 and L0749: 1.	H0616: 4 and L0758:	3.	H0038: 1 and H0616:	H0616: 2	H0616: 2	H0616: 4	H0616: 2	H0616: 3 and L0779:	H0038: 2 and H0616:	H0616: 11 and H0038:
Arg-1 to Ser-6.		Ala-8 to Ser-13.	Pro-2 to Asp-7.	Val-17 to Val-23,	Phe-34 to Tyr-46,	Thr-62 to His-67.	Val-1 to Thr-12.	Gln-9 to His-21.		Glu-27 to Thr-34.			Asn-1 to Gln-7,	Phe-27 to Gly-38, Pro-61 to Gly-68.		Arg-21 to Phe-28.				Asn-56 to Ser-66.	Asp-19 to Lys-24.	Leu-21 to Gly-26,
3907	3908	3909	3910	3911			3912	3913		3914		3915	3916		3917	3918	3919	3920	3921	3922	3923	3924
79 - 267	157 - 438	260 - 475	279 - 455	1 - 318			3 - 107	351 - 542		421 - 588		318 - 554	86 - 361		3 - 449	9-239	107 - 349	181 - 294	394 - 648	357 - 626	75 - 302	117 - 434
1220	1221	1222	1223	1224			1225	1226		1227		1228	1229		1230	1231	1232	1233	1234	1235	1236	1237
779315	963563	791743	757740	870621			773018	766462		923071		806403	966134		794339	870552	923055	783824	952267	952269	786268	926910
HTELD82	HTELE10	HTELE41	HTELG47	HTELG57			HTELG80	HTELH44		HTELI03		HTELISI	HTELJ89		HTELK14	HTELK50	HTELK68		HTELL51	HTELL90	HTELM89	HTELO20

11.	H0616: 4		H0038: 1 and H0616:	-				H0616: 2	H0616: 2, H0038: 1	and L0754: 1.			H0616: 3	H0616: 2 and H0038:	<u></u>	H0616: 2				H0616: 4, L0774: 2,	H0618: 1, L0665: 1 and	L0747: 1.		H0616: 4	H0616: 2	H0616: 2 and L0758:	1.	H0616: 2
His-101 to Trp-106.	Ser-21 to Ser-29,	Ala-43 to Asn-49.	Lys-1 to Cys-7,	Lys-16 to Glu-21,	Ser-23 to Thr-37,	Pro-40 to Ser-47,	Glu-49 to Arg-59.	Asn-6 to Ser-12.	Pro-1 to Val-16,	Lys-22 to Asp-30,	Asn-47 to Ala-61,	Arg-89 to Leu-94.		Tyr-1 to Leu-7,	Phe-51 to Asp-60.	Arg-29 to Leu-40,	Gly-50 to Gln-55,	Thr-73 to Ile-83,	Lys-90 to Lys-95.	Thr-7 to Asn-12,	Leu-20 to Ile-29,	Ser-54 to Ser-64,	Met-66 to Gly-77.	Lys-50 to Glu-55.	Lys-1 to Lys-9.	Lys-57 to Gly-63.		Asp-1 to Trp-11,
	3925		3926					3927	3928				3929	3930		3931				3932				3933	3934	3935		3936
	2 - 166		56 - 232					1 - 204	3 - 470				97 - 462	36 - 344		2 - 451				2 - 235				3 - 521	3 - 173	37 - 240		106 - 270
	1238		1239					1240	1241				1242	1243		1244				1245				1246	1247	1248		1249
	931120		761806					934344	921621				922634	761768		826531				761598				780619	915339	934302	1	963576
	HTELO51		HTELO73					HTEL093	HTELP27				HTELQ41	HTELQ87		HTELR90				HTELT72				HTELT83	HTELU01	HTELV06		HTELV10

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																				109400,	132800,	132800,	186855,	223900,	253800,	253800,	278700,
	,																			9q31							
	L0758: 16, H0038: 1 and H0616: 1.	H0038: 1 and H0616:	1.	7 4 20071	AK089: 7, AK061: 6	H0616: 4, H0038: 1,	L0745: 1 and L0779: 1.		H0616: 4, H0038: 2,	L0768: 1 and L0779: 1.	H0616: 2 and L0758:	1.	H0616: 2	H0038: 1 and H0616:	•	H0616: 2	H0038: 1 and H0616:	1.	H0616: 2	AR089: 19, AR061: 13 9q31	H0618: 14, H0253: 12,	H0038: 11, H0616: 2,	L0794: 1, L0779: 1 and	L0758: 1.			
Ser-49 to Lys-55.	Thr-17 to Leu-22.	Gly-2 to Ile-19,	Lys-22 to Ala-31,	Asp-49 (0 Asil-50.	Inr-5 to Ser-11,	Asp-/8 to His-85,	Ser-153 to Ser-162,	Glu-221 to Ala-234, Gly-247 to Glu-252.	Ala-21 to Trp-26,	Arg-64 to Val-83.	Cys-2 to Glu-9.		Gln-3 to Gln-13.			Thr-18 to Gly-25.	Lys-32 to His-41.		Ser-46 to Thr-53.	Gly-23 to Asn-30,	Arg-45 to Lys-50.					•	
	3937	3938		0000	3939				3940		3941		3942	3943		3944	3945		3946	3947							
	172 - 303	2 - 448		1 007	1-92/				3 - 293		71 - 271		3 - 302	25 - 117		140 - 283	94 - 312		171 - 353	22 - 1167							
	1250	1251		1757	7571				1253		1254		1255	1256		1257	1258		1259	1260							
	796832	870615		210010	910940				952241		870596		963506	761599		764834	952268		786424	911666	-						
	HTELV26	HTELV43		70/1	HIELV80				HTELW29		HTELW62		HTELX52	HTELX72		HTELY64	HTELZ07		HTELZ89	HTEMA54							

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and L0748: 1.	H0038: 1 and H0616:	H0616: 5, H0038: 2,	H0616: 2	H0038: 1 and H0616:	H0616: 2 and H0038:	1.	H0616: 3	H0616: 3 and H0038:	H0038. 10 T 0758. 7	110036. 10, L0736. 7,	E0/06. 0, E0/233. 4, H0616. 2 T 0772. 1	T 0773: 1 T 0770: 1 2.3	LU//3: 1, LU//9: 1 and	L0731: 1.		A DOOO. 17 A DOCT. 12	1 0204.2 1 0752.2	LO194. 2, LO192. 2,	H0616: 1, L0/63: 1,	L0766: 1, L0664: 1,	H0670: 1 and L0758: 1.	H0038: 1, H0616: 1	and L0758: 1.		H0038: 1 and H0616:
	Pro-11 to Gly-21, Pro-65 to Ser-71.	Pro-32 to Gly-40,	Tyr-16 to Ser-25.				Phe-7 to Glu-12, Leu-22 to Tyr-28.	Gln-29 to Gly-34.	Arg 8 to Cor 15	Ser 21 to Tm 40	Sel-21 to 11p-40,	Cor 76 to Cor 01	Sel-70 to Sel-61,	Asp-83 to Asp-96,	Glu-125 to Ser-131,	Ser 7 to Acr 12	Ten 40 to Asp 54	TT: 62 42 Thur Co	HIS-02 to 1 yr-68.			Arg-1 to Arg-8,	Leu-44 to Ala-50,	Ser-58 to Ile-68.	Ser-16 to His-24.
	3960	3961	3962	3963	3964		3965	3966	3067							3068		,				3969			3970
	45 - 359	353 - 631	10 - 96	54 - 251	2-319		166 - 276	1 - 159	3 - 670							2 340	2			-		102 - 371			45 - 203
	1273	1274	1275	1276	1277		1278	1279	1280							1281						1282			1283
	923066	989888	958374	789113	880634		771434	767863	032310		-	-				087909	2					963527			832506
	HTEMK03	HTEMM80	HTEMN08	HTEMN95	HTEMO14		HTEMO85	HTEMP48	HTFMP49							HTEMR65			-			HTEMS10			HTEMS48

1.	L0758: 4, H0038: 1, H0616: 1 and L0779: 1.				L0758: 3 and H0616:	2.	H0616: 2, L0749: 2	and H0038: 1.	H0616: 3		AR061: 6, AR089: 3 H0616: 2 and H0038:	1	H0038: 1, H0616: 1	and L0759: 1.	H0616: 2	H0038: 1 and H0616:	<u>i</u>	H0616: 3	H0616: 2 and L0109:	1.			H0038: 1 and H0616:	1.	H0038: 1, H0616: 1 and S0152: 1.
	Ile-14 to Asp-22, Pro-28 to Gln-43,	Pro-49 to Arg-56,	Pro-62 to Ser-78,	Thr-81 to Glu-89.	Glu-36 to Val-53.		Arg-21 to Pro-26.		Arg-18 to Lys-24,	Thr-29 to Ile-34.	Gly-82 to Lys-89.		Arg-32 to Gly-37.			Pro-20 to Ala-32,	Arg-46 to Val-51.	Ser-29 to Val-39.	Gh-29 to Leu-34,	Arg-36 to Leu-44,	Glu-58 to Ser-64,	Ser-67 to Pro-85.	Ala-6 to Ala-12.		Glu-69 to Leu-79.
	3971				3972		3973		3974		3975		3976		3977	3978		3979	3980	-			3981		3982
	2 - 268				2 - 160		112 - 273		43 - 189		23 - 514		46 - 231		162 - 377	1 - 294		24 - 338	243 - 497				380 - 574		111 - 347
	1284				1285		1286		1287		1288		1289		1290	1291		1292	1293				1294		1295
	934338				922999		789623		810018		913795		870662		927021	870601		923050	775544				928378		795316
	HTEMT06				HTEMT89		HTEMU17		HTEMU54		HTEMX92 913795		HTEMY30		HTEMZ04	HTENA22		HTENB03	HTENC22				HTENF08		HTENF95

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									1133780,	151400,	602078									
									11q13.2-q13.3 133780,	1										
H0253: 3, H0038: 1 and H0616: 1.	H0038: 1 and H0616: 1.	H0616: 2, H0038: 1 and L0758: 1.	AR089: 30, AR061: 13 L0794: 25. L0758: 4.	H0038: 3, H0616: 2,	L0779: 2, L0768: 1 and	L0790: 1.	H0038: 7, H0124: 1,	H0040: 1, H0616: 1 and	: 1 and H0616:				H0616: 3 and H0618: 1.	H0038: 4, H0616: 3,	L0758: 3 and L0779: 1.			H0616: 6, H0618: 3,	H0253: 3 and H0038: 3.	
Asn-2 to Glu-14, Pro-17 to Lys-27, Gly-42 to Ser-59, Cys-70 to Lys-81.	His-7 to Ser-12.	Ile-28 to Ser-36.	Asn-17 to Asn-30, Glu-37 to Lvs-56.	Asp-64 to Gln-69,	Gly-77 to Ser-95,	Lys-109 to Asn-114, Arg-158 to Ser-183.	Thr-6 to Arg-17.		Thr-17 to Ala-25,	Pro-40 to Glu-46,	Asn-76 to Glu-81,	Gln-90 to Lys-104.	Gly-23 to Pro-32.	Arg-15 to Leu-21,	Ala-29 to Glu-34,	Pro-40 to Trp-49,	Ser-82 to Ala-97.	Gly-29 to Glu-39,	Gly-105 to Lys-117,	Gln-135 to Leu-142,
3983	3984	3985	3986				3987		3988				3989	3990				3991		
3 - 308	1 - 102	182 - 436	41 - 589				1 - 948		3 - 443				249 - 566	192 - 509				76 - 1467		
1296	1297	1298	1299				1300		1301				1302	1303				1304		
840151	967432	784798	917213				968135		767838				835851	844557				917032		
HTENG66	HTENG93	HTENH86	HTENI58				HTENJ28		HTENJ76				HTENK06	HTENK69				HTENO12		

				H0038: 1 and H0616:	1.		H0616: 17 and L0758:	1.	H0038: 1 and H0616:	-		H0038: 2, H0616: 1	and L0758: 1.	H0038: 1 and H0616:		H0038: 2 and H0616:	1.	H0328: 1, H0038: 1	and H0616: 1.				H0038: 1, H0616: 1	and L0748: 1.					
Pro-180 to Ser-186,	Gln-202 to Ser-207,	Gln-214 to Asp-220,	Gly-246 to Thr-255.	Asn-1 to Glu-6,	Gln-9 to Gly-15,	Gln-18 to Arg-40.	Arg-13 to Leu-18.		Asp-16 to Leu-22,	Met-37 to Thr-42,	Glu-55 to Gly-68.	His-23 to Ser-34,	His-77 to Glu-82.	Gly-40 to Ala-45,	Arg-65 to Thr-75.	Gly-1 to Pro-15.		Glu-49 to Ala-55,	Cys-57 to Ser-85,	Ser-90 to Glu-97,	Ile-108 to Lys-114,	Val-117 to Asn-127.	Met-2 to Asn-16,	Gln-30 to Gln-35,	Met-42 to Gln-48,	Ser-54 to His-60,	Pro-63 to Ser-69,	Leu-101 to Gln-118,	Gly-139 to Pro-146.
				3992			3993		3994			3995		3996		3997		3668					3999				-		
				190 - 618			17 - 208		2 - 496			1 - 654		24 - 380		1 - 456		201 - 659					3 - 440						
				1305			1306		1307			1308		1309		1310		1311					1312						
				969213			787535		775387			928244		963530		764828	_	920834					785996						
				HTENO50			HTENP54		HTENP80			HTENQ05		HTENR10		HTENR74		HTENR93					HTENS22						

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H0616: 5, H0038: 3, H0253: 1, L0769: 1,	L0794: 1, H0521: 1,	L0748: 1, L0779: 1 and	L0758: 1.	H0616: 2 and L0517:	AR061: 7, AR089: 3	H0616: 5 and H0038:	·		-			H0038: 2, H0616: 2	and L0758: 2.	L0758: 10, L0439: 6,	H0616: 2, L0803: 2,	L0756: 2, L0455: 1,	H0038: 1 and L0438: 1.	H0038: 1 and H0616: 1.	H0616: 3							
				Trp-1 to Gln-10.	Gly-5 to Arg-10,	Arg-18 to Ser-24,	Glu-35 to Asn-42,	Lys-72 to Gln-82,	Tyr-90 to Lys-96,	Lys-112 to Arg-123,	Asp-141 to Met-146.	Arg-6 to Asp-13,	Lys-70 to Trp-76.	Glu-1 to Lys-11.				Ala-17 to Ser-22.	Gln-1 to Ser-19,	Glu-29 to Lys-35,	Leu-58 to Phe-68,	Cys-100 to Arg-107,	Cys-113 to Cys-119,	Phe-124 to Asn-139,	Leu-157 to Glu-163,	Ile-174 to Ile-180,
4000				4001	4002							4003		4004				4005	4006							
226 - 756				387 - 725	99 - 617				·			1 - 243		168 - 359				383 - 553	2 - 1009	,						
1313				1314	1315							1316		1317				1318	1319							
784936		-		870515	944416							907717		771409				870587	884043			-				
HTENS43				HTENS91	HTENV57							HTENW53 907717		HTENX77				HTENY21	HTENY35							

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													_												300000,	300066,	300077,
																									Xp22		
			L0779: 9, L0758: 9,	L0665: 8, H0616: 4,	L0663: 4, H0038: 3,	L0755: 3, L0717: 1,	L0768: 1, L0666: 1,	H0659: 1, H0670: 1,	L0748: 1 and L0749: 1.	H0038: 1 and H0616:	1	H0616: 2 and H0038:	1.		H0038: 1 and H0616:	1.		H0616: 2 and H0038:	1.		H0616: 2 and H0038:	1.	H0038: 1 and H0616:	•	AR061: 7, AR089: 3	H0616: 3	
Pro-195 to Pro-204,	Gly-228 to Glu-250, le-260 to Asp-266.	Thr-273 to His-279, Cys-281 to Gly-291.								Gln-24 to Glu-34,	Ala-58 to Ser-64.	Met-56 to Pro-67,	Ser-82 to Tyr-87,	Pro-111 to Ala-121.	Arg-20 to Gln-27,	Arg-37 to His-42,	Pro-46 to His-55.	Tyr-3 to Cys-9,	Thr-20 to Ile-25,	Gly-60 to Arg-67.			Gly-2 to Glu-13,	Val-40 to Cys-79.	Val-17 to Arg-23,	Tyr-28 to Ser-34,	Thr-41 to Cys-47.
			4007							4008		4009			4010			4011			4012		4013		4014		
			203 - 454							102 - 377		2 - 400			24 - 329			129 - 428			247 - 411		258 - 632		2 - 262		
			1320							1321		1322			1323			1324			1325		1326		1327		
			917185					·		870591		773024			787516			812307			918635		793202		847224		
			HTENZ16							HTENZ33		HTENZ72			HTEOA90			HTEOD34			HTEOE61		HTEOF31		HTEOF80		

300310, 301220, 302350, 304050, 304110, 309530, 309585,																
	H0663: 1, H0644: 1, H0038: 1 and H0616: 1.	H0616: 2	AR089: 36, AR061: 21	H0038: 7, H0618: 1,	H0253: 1 and H0616: 1.		H0038: 1 and H0616:			H0616: 2 and H0038:	AR061: 6, AR089: 3	H0038: 4, L0758: 3,)616: 2, L0794: 2,	.0747: 2, L0803: 1,	.0789: 1 and L0590: 1.	H0038: 2 and H0616:
	H H	Arg-31 to Asp-37.		Lys-33 to Arg-40, I		Ala-/9 to Val-93, Lys-106 to Asp-113.		Tyr-12 to Gly-29, 1.	Lys-77 to Glu-91.		Pro-27 to Ala-35. AI	<u>н</u>)H		07	H 1.
	4015	4016	4017				4018			4019	4020					4021
	113 - 364	27 - 164	3-410			-	11 - 295			121 - 408	2 - 520			_		107 - 271
	1328	1329	1330		-		1331			1332	1333					1334
	768583	918571	870575				810333			918590	815852					954114
·	HTEOF85	HTEOF91	HTEOI36				HTE0153			HTEOK02	HTEON29				Т	HIEON6/

										3											-							
H0616: 22	L0766: 5, L0803: 3,	L0470: 1, L0761: 1,	L0764: 1, L0804: 1,	L0805: 1, L0776: 1,	L0789: 1 and L0750: 1.	H0616: 2		AR089: 17, AR061: 14	H0616: 2	H0618: 3, H0616: 2	and H0253: 1.				L0758: 9, H0038: 1,	H0616: 1 and S0042: 1.	H0616: 3, L0747: 2,	L0794: 1, L0803: 1 and	L0779: 1.	H0616: 3, L0758: 2,	L0794: 1 and L0366: 1.	H0616: 2 and H0038:	1.	H0616: 4, L0779: 1	and L0758: 1.	H0616: 2	H0616: 4, L0756: 2	and H0038: 1.
	Pro-14 to Phe-23,	Lys-111 to Lys-155.				Ser-30 to His-36,	Arg-54 to Arg-59.	Gly-38 to Val-44.		Arg-1 to Ala-13,	Arg-99 to Arg-104,	Thr-117 to Gln-124,	Asn-132 to Gln-137,	Thr-145 to His-155.	Tyr-34 to Glu-43.		Pro-77 to Ser-83.			Asp-35 to Gly-40.		Leu-2 to Gly-11.		Pro-10 to Asn-16,	Asn-38 to Arg-44.	Cys-5 to Thr-14.	His-7 to Gly-17,	Gly-25 to Leu-36.
4022	4023					4024		4025		4026			•		4027		4028			4029		4030		4031		4032	4033	
320 - 529	22 - 438					3 - 266		2 - 445		2 - 490					147 - 605		43 - 393			204 - 515		161 - 568		140 - 328		126 - 497	2 - 193	
1335	1336					1337	ļ	1338		1339					1340		1341			1342		1343		1344		1345	1346	
915138	870532					918475		870566		969682	,				958391		872923			772949		782248		767824		883021	933299	
HTEOU45	HTEOV90					HTEOW02		HTEOW39		HTEOW85					HTEPA08		HTEPA27			HTEPB66		HTEPB84		HTEPC76		HTEPC87	HTEPD06	

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AR061: 5, AR089: 2	H0369: 1, H0038: 1,	H0616: 1, L0593: 1 and	L0595: 1.	L0752: 3, H0618: 1,	H0616: 1, L0769: 1,	L0803: 1, L0789: 1,	L0439: 1, L0758: 1 and	L0698: 1.		H0616: 3 and H0038:				•				H0616: 2 and L0758:	1.	H0616: 2	H0038: 1 and H0616:	1.	H0616: 5, L0758: 5	and H0038: 1.	AR061: 25, AR089: 5	L0758: 3, H0616: 2,	H0038: 1 and L0779: 1.	H0616: 2	H0616: 2 and H0038:
Asn-30 to Lys-43,	Pro-58 to Glu-65,	Arg-77 to Asn-85.		Gln-1 to Asn-9,	Pro-14 to Leu-20,	Leu-42 to Gly-47,	Gln-56 to Arg-61,	Pro-109 to Ser-114,	Lys-119 to Thr-131.	Thr-2 to Ser-12,	Arg-60 to Leu-67,	Ala-72 to Thr-77,	Pro-82 to Lys-91,	Gly-96 to Ser-101,	Glu-110 to Pro-118,	Gln-124 to Leu-129,	Gln-132 to Ser-138.	Arg-1 to Asn-11,	His-40 to Arg-45.	Arg-1 to Ser-9.			Gly-5 to Pro-15,	Ser-23 to His-32.	Pro-8 to Gly-26,	Cys-54 to Cys-66,	Gly-73 to His-85.		Leu-12 to Pro-17,
4034				4035						4036								4037		4038	4039		4040		4041			4042	4043
2 - 640				3 - 395						25 - 477								305 - 1216		37 - 345	27 - 122		209 - 631		1 - 735			171 - 326	3-311
1347				1348						1349								1350		1351	1352		1353		1354			1355	1356
932576				812303						915301					•	•		956200		918599	774212		939675		870561			806471	952243
HTEPE28				HTEPG15						HTEPH01								HTEPJ09		HTEPJ19	HTEPJ79		HTEPK40		HTEPM33			HTEPM52	HTEPN07

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		H0616: 2, L0779: 2, H0038: 1 and L0758: 1.	H0038: 1 and H0616:	H0616: 3 and H0038:	•		H0616: 4 and H0038:		•					H0038: 1 and H0616:	•		H0038: 2 and H0616:	H0616: 2	H0616: 2 and H0038:		H0616: 2	AR061: 6, AR089: 2	H0616: 3, L0758: 2,	0768: 1, L0792: 1 and	.0779: 1.	AR089: 11, AR061: 2
Pro-24 to Gly-29,	Ser-34 to Gly-39.	Asn-6 to Asp-16.	Gly-33 to Gly-38,	 Ala-35 to Glu-41,		Lys-80 to Leu-87.	Gln-8 to Cys-17,	Cys-20 to $Gln-26$, β	Thr-61 to Lys-68,	His-75 to Gly-83,	Asn-88 to Gln-104,	Pro-118 to Leu-126.	Gln-131 to Glu-138.	Lys-86 to Lys-91,	39,	Leu-133 to Asn-162.	2	Gly-42 to Gly-47.	Pro-66 to Ser-74.	<u> </u>		Ser-9 to Ser-17, A	Phe-21 to Leu-45.	<u> </u>	L	Ser-10 to Gly-15, A
		4044	4045	 4046			4047							4048			4049	4050	4051		4052	4053		•		4054
		1 - 192	1 - 372	12 - 641			3 - 866						i	3 - 545			1 - 168	2 - 238	42 - 518		533 - 670	1 - 471				91 - 699
ł		1357	1358	1359			1360							1361			1362	1363	1364		1365	1366				1367
		836572	917207	947107			785803							698062			787499	870509	870637		915134	917406				849028
		HTEPP23	HTEPP29	HTEPP30			HTEPP32							HTEPP92			HTEPR90	HTEPT25	HTEPT75		HTEPU01	HTEPV02				HTEPX32

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															į												
H0038: 6, H0616: 6,	L0794: 4, L0768: 1 and	L0758: 1.		H0616: 2 and L0758:	2.	H0618: 1 and H0616:	T. TTOC16. 4	H0010: 4	L0758: 7, H0618: 1,	H0616: 1, L0794: 1 and L0779: 1.	H0616: 2 and H0038:	1. H0038: 2 and H0616.	110036. 2 alla f10010.			H0616: 3 and H0038:	-		H0616: 2, L0803: 1	and L0774: 1.		H0038: 2 and H0616:	-	H0038: 1 and H0616:	1		H0038: 1 and H0616:
Pro-20 to Ser-27,	Glu-34 to Gly-41,	Ala-45 to Trp-50,	Pro-79 to Gly-88.	Pro-9 to Ser-19,	Pro-51 to Asp-57.	Lys-2 to Gly-11.	Dr. 20 to Cr. 25	Thr-41 to Ser-47.	Met-11 to Lys-28.		Thr-39 to Asn-45.	His-16 to Ser-21	17-1 20 to 3CI-21,	val-30 to Asn-40,	Leu-54 to Pro-64.	Pro-31 to Glu-45,	Ala-52 to Lys-58,	Met-78 to Lys-89.	Thr-1 to Asn-6,	Pro-11 to Phe-19,	Arg-21 to Asn-27.			Gln-4 to Ser-9,	Ala-23 to Glu-29,	THE-03 10 361-71.	
				4055		4056	4057	4027	4058		4059	4060	200			4061			4062			4063		4064		4006	4065
				274 - 543		50 - 502	2-151	101 - 7	2 - 490		133 - 321	205 - 633	CCO CC2			10 - 426			189 - 422			158 - 424		90 - 308		177	1 - 144
				1368		1369	1370	277	1371		1372	1373	2			1374			1375			1376		1377		1270	13/8
				963433		888470	922941	11/77/	915198		918579	958354)			881004			853971			870525		806495		008504	9000004
				HTEPZ10		HTEPZ18	HTFOR03	2027211	HTEQD40		нтеор69	HTEOE87				HTEQG56			HTEQI54			HTEQ114		HTEQJ42		HTEOO81	nicquoi

1.	H0616: 4	H0616: 3 and L0758:	AR089: 10, AR061: 3	H0253: 8, H0038: 4,	H0616: 3, H0618: 2,	L0758: 2 and L0779: 1.	L0758: 6, H0616: 2	and L0794: 2.	L0758: 3, H0038: 1	and H0616: 1.	H0253: 2	H0618: 4 and H0253:	3.	H0253: 2	H0253: 3		H0038: 164, H0253:	42, H0150: 2, H0549: 1	and S0042: 1.	L0758: 4, H0253: 2,	H0616: 2, L0649: 1,	L0666: 1, L0663: 1 and	L0780: 1.	L0758: 5, H0253: 4,	L0794: 4, H0618: 2,	H0038: 1, H0616: 1 and	L0768: 1.
	Lys-1 to Phe-10.	Asp-5 to Asp-14.	Thr-17 to Leu-22.				Asn-83 to Ser-88.				Asp-32 to Gln-37.	Ala-6 to Gly-25.		Gly-42 to Arg-47.	Leu-2 to Cys-8,	Gly-32 to Arg-39.	Ala-1 to Arg-6,	Met-14 to Thr-32.		Ser-5 to Asn-12,	Leu-63 to Gly-71.			Phe-12 to Leu-22,	Ser-26 to Tyr-32,	Phe-53 to Asn-59,	Tyr-68 to Leu-73,
	4066	4067	4068				4069		4070		4071	4072		4073	4074		4075			4076				4077			
	1 - 141	254 - 24	108 - 590				77 - 388		193 - 1311		3 - 281	3 - 266		1 - 333	2 - 163		23 - 154			2 - 298				86 - 529			
	1379	1380	1381				1382		1383		1384	1385		1386	1387		1388			1389	•			1390			
	966141	932301	939641				966486		924799		530577	530579		575019	679414		546469			761758	·			421550			
	HTEQP45	нтеоо82	HTEQR15				HTEQR94		HTEQT63		HTLAB19	HTLAB44		HTLAB73	HTLAC81		HTLAC87			HTLAD21				HTLAD38	-		

									109400,	125270,	125270,	128100,	132800,	132800,	137350,	186855,	191100,	215700,	223360,	223900,	253800,	253800,	268000	278700,	, ,	601850,	602088	
									9q31-q34	•																		
	H0253: 2 and L0777:	H0253: 3	H0253: 2			H0253: 1, H0038: 1	and H0616: 1.		L0366: 3, H0618: 2,	H0253: 1 and L0754: 1.	_																	H0616: 2, H0618: 1 and H0253: 1.
Gln-96 to Gly-102.	Pro-32 to Thr-48, Arg-102 to Pro-109.	Ser-39 to Gly-45.	Ala-2 to Pro-8,	Pro-57 to Trp-67,	Cys-69 to Gly-74.	Glu-6 to Thr-15,	Ser-21 to His-34,	Arg-53 to Ala-64.	Ser-1 to Gly-8,	Thr-15 to Thr-23,	Pro-45 to Pro-53.																	Glu-21 to Gln-27, Ser-30 to Lys-37.
	4078	4079	4080			4081			4082																			4083
	1 - 444	36 - 221	2 - 331			2 - 232			209 - 481																			3 - 590
	1391	1392	1393			1394			1395																			1396
	836390	530742	506739			967408			780116																			971661
	HTLAF84		HTLBD12			HTLBE55			HTLBE82		•																\neg	HILBF14

												-																	
								-																					
H0253: 2	AR061: 373, AR089:	188	H0253: 3, H0618: 2,	H0038: 2, H0616: 1 and	L0758: 1.	L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and	H0253: 1.	H0253: 2	H0253: 1, L0794: 1,	L0766: 1, L0803: 1,	H0670: 1 and L0747: 1.	AR061: 5, AR089: 5	H0253: 4, H0618: 3,	L0758: 3, L0779: 2 and	L0794: 1.	H0253: 2	L0758: 4, L0794: 2,	L0617: 1, H0253: 1,	H0038: 1, L0789: 1 and	L0779: 1.	H0253: 2	L0758: 11, H0253: 3,	H0550: 1 and H0616: 1.					
						Gly-1 to Ile-6,	Gly-12 to Ile-27.		Leu-58 to Arg-68.	Arg-9 to Cys-18,	Arg-34 to Gly-40,	Glu-47 to Asp-54.	Arg-1 to Arg-6,	Ala-49 to Tyr-58,	Pro-67 to Lys-80,	Ser-92 to Trp-108.	His-1 to Gly-6.					Ser-6 to Ser-11.	Asn-1 to Glu-6,	Gly-17 to His-28,	Glu-33 to Ser-39,	Pro-41 to Lys-51,	Pro-56 to Glu-69,	Ser-83 to Lys-90,	Thr-97 to Ser-103,
4084	4085					4086			4087	4088			4089				4090	4091				4092	4093						
96 - 200	38 - 1096					2 - 112			2 - 277	2 - 301			134 - 934				1 - 162	17 - 286				2 - 271	72 - 497						
1397	1398					1399			1400	1401			1402		•		1403	1404				1405	1406						
527942	911655					772644			767667	682208			908832				572959	815897				828115	780842						
	HTLCA95					HTLCG77			HTLCX76	HTLCY27			HTLCY54				HTLCZ48	HTLCZ96				HTLDA58	HTLDE53						

	AR089: 25, AR061: 11	H0253: 2 and H0618:	H0253: 2	AR061: 7, AR089: 3	L0758: 6, L0789: 2,	L0779: 2, H0253: 1,	L0809: 1, L0666: 1 and	H0648: 1.	H0253: 2	H0553: 3 and H0253:	H0618: 1 and H0253:	1.	H0253: 2, H0188: 1	and H0038: 1.		H0253: 3 and H0618:	7.				H0618: 11, H0253: 10,	H0616: 6, L0758: 5,	H0038: 4, L0768: 2 and	H0090: 1.	AR061: 7, AR089: 2,		
Arg-121 to Asp-131.	Glu-15 to Leu-20,	Leu-24 to Ser-47.		Pro-7 to Gly-13.					Gly-1 to Arg-10.				Met-12 to Asp-18,	Tyr-20 to Gly-31,	Lys-38 to Trp-47.	Gly-1 to Gly-9,	Gln-15 to Arg-20,	Cys-53 to Arg-59,	Arg-84 to Glu-89,	Pro-105 to Glu-113.	Ser-3 to Ser-16.				Ala-1 to Gln-13,	Pro-19 to Leu-27,	Asp-34 to Pro-40,
	4094		4095	4096			•		4097	4098	4099		4100			4101					4102				4103		
	83 - 427		86 - 298	3 - 599					1 - 192	3 - 431	248 - 472		90 - 458			1 - 573					1 - 834		•		2 - 1171		
	1407		1408	1409					1410	1411	1412		1413			1414					1415				1416		
	908613		616724	909254					911645	839795	835850		915223			920546					870057				891322		
	HTLDE64		HTLDE95	HTLDF33					HTLDG55	HTLDH65	HTLD190		HTLD094			HTLDP77					HTLDQ25				HTLDS55		

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			109400, 132800, 132800, 186855, 223900, 253800, 278700, 602088			
			9q31			
H0618: 5, L0758: 4, H0038: 3, H0253: 2, H0553: 1, H0616: 1, L0789: 1, L0663: 1 and L0779: 1.	AR089: 11, AR061: 7 H0253: 2, L0439: 1 and L0599: 1.	H0253: 2 and H0618: 1.	AR061: 8, AR089: 7 H0253: 3, H0618: 1 and L0758: 1.	H0253: 1 and S0152: 1	H0618: 2 and H0253: 1.	H0038: 2 and H0253:
Ser-45 to Ser-52, Lys-105 to Pro-112, Pro-146 to Trp-158, Arg-181 to Arg-189, Arg-241 to Arg-248, Asp-285 to Asn-291, Gln-328 to Ile-333,	Gln-369 to Thr-375, Arg-380 to Phe-390. Gly-3 to Ser-8.	Pro-3 to Pro-8, Glu-22 to Gln-29.	Pro-89 to Ala-97.	Gln-16 to Gly-35, Gly-59 to Ser-74.	Pro-5 to Gly-10, Gly-24 to Ala-33, Pro-88 to Pro-95, Pro-106 to His-114.	Lys-50 to Ala-55,
	4104	4105	4106	4107	4108	4109
	2 - 328	1 - 465	2 - 469	61 - 309	148 - 636	3 - 425
	1417	1418	1419	1420	1421	1422
	909752	952265	911649	867/48	791684	573746
	HTLDT05	HTLDT81	HTLDU05	HILDV31	HTLDX88	HTLDY85

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																									116806,
														15q13-qter	•										3p21.3
1.		H0253: 2	H0618: 4 and H0253:	H0253: 2	H0253: 2	AR051: 12, AR054:	10, AR050: 8	H0616: 6, H0618: 2,	H0253: 2 and H0038: 2.	H0253: 2	H0253: 2		H0253: 3	AR061: 3, AR089: 1	H0618: 3 and H0253:	1.		H0253: 5 and H0618:	3.		H0253: 2	•	H0253: 1 and H0616:	·I	H0253: 2
Thr-99 to Glu-104,	Arg-116 to Arg-122, Lys-129 to Thr-136.		Gly-63 to Arg-71.	Leu-1 to Pro-7.							Gly-1 to His-8,	Glu-26 to Gly-33.	Glu-58 to Thr-63.	Tyr-52 to Gln-60,	Phe-86 to Ala-94,	Lys-111 to Arg-118,	His-193 to Tyr-198.	His-22 to Lys-36,	Asp-51 to Lys-59,	GIN-08 to Leu-83.	Ala-1 to Cys-13,	Arg-32 to Ala-37.	Pro-3 to Gly-9.		
		4110	4111	4112	4113	4114				4115	4116		4117	4118				4119			4120		4121		4122
		174 - 347	1 - 414	102 - 287	33 - 239	177 - 1181				1 - 111	1 - 528		124 - 417	2 - 802				2 - 307			2 - 331		2 - 202	,	2 - 106
l L		1423	1424	1425	1426	1427				1428	1429		1430	1431		_		1432			1433		1434	, , ,	1435
		573401	573464	686906	870258	870154				870257	934287		573460	973302				960314		1, 0, 0, 0	506747		917022	000000	080075
		HTLDZ14	HTLEB14	HTLED72	HTLEF94	HTLEG65				HTLEG91	HTLEH30		HTLEI47	HTLEJ11				HTLEJ93		, , , , , , , , , , , , , , , , , , , ,	HTLEK64		HTLEL01	CO THE TWEET	HILELUS

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120120,	120120,	120436,	120436,	120436,	138320,	168468	182280	600163				126650,	126650,	154276,	173360	173360,	602136,	602136,	602136,	602447					-		···	
										-		7q22	ı															
									H0253: 1 and H0617:			H0253: 2									H0253: 2, L0777: 2 and L0759: 1	H0253-1 and H0038-	1.	H0253: 2, L0794: 2	and S0042: 1.	H0618: 2 and H0253:	, . ·	
	•								Ala-29 to Asn-37,	Lys-64 to Thr-77,	Ile-97 to Arg-126.	Pro-6 to Glu-13,	Arg-18 to Pro-30.									Ser-2 to Pro-10.			·	His-7 to Ile-32,	Glu-82 to Glu-87,	Lys-103 to Gly-108.
				,					4123			4124									4125	4126		4127		4128		
									58 - 555			3 - 143								,	1 - 456	2 - 265		3 - 443		3 - 605		
									1436		į	1437							•	1 430	1438	1439		1440		141		
									953712			056699					-			710170	001617	506649		574942		953706		
									HTLEL07			HTLEL31								TITE BAKAC	n i Leivi40	HTLE050		HTLEP16		HTLEQ07	•	

									-																				
H0253: 2	H0038: 2 and H0253:	<u>,,</u>		AR061: 6, AR089: 5	H0253: 18, H0618: 7,	L0794: 3, H0038: 1,	H0616: 1, L0788: 1 and	L0758: 1.		AR061: 4, AR089: 2	H0618: 10, H0253: 5,	L0758: 5, L0664: 1,	L0756: 1, L0779: 1 and	L0698: 1.	H0253: 2	L0794: 5, H0253: 3,	H0618: 2, H0616: 2,	L0758: 2 and L0787: 1.	H0616: 14, H0618: 8,	L0779: 4, H0253: 3,	H0038: 3, L0790: 1 and	L0758: 1.		H0253: 2, H0617: 2	and H0618: 1.	H0253: 2	H0253: 2		H0253: 2
	Pro-10 to Gln-19,	Pro-46 to Ile-59,	Thr-64 to Leu-70.	Ser-54 to Lys-61,	Pro-118 to Lys-128,	Thr-208 to Ser-213,	Ser-218 to Ala-227,	Pro-230 to Ser-236,	Pro-238 to Ser-244.	Leu-11 to Lys-18,	Phe-107 to Gly-114,	Glu-121 to Asn-128,	Met-146 to Pro-153.			Ala-8 to Gly-17,	Pro-25 to His-34.		His-1 to Thr-6,	His-14 to Cys-58,	Cys-70 to Ala-77,	Pro-85 to Cys-109,	Pro-116 to Glu-121.				Arg-1 to Gly-21,	Gln-38 to Asp-43.	Pro-38 to Trp-43,
4129	4130			4131						4132					4133	4134			4135	_				4136		4137	4138		4139
49 - 216	1 - 282			92 - 826						2 - 826					1 - 111	1 - 273			52 - 414					2 - 346		3 - 197	2 - 130		5-226
1442	1443			1444						1445					1446	1447			1448					1449		1450	1451		1452
573403	574884			911654						836820					573454	527956			883332			-		870255		573458	967309		775310
HTLES43	HTLES54			HTLET56						HTLET78					HTLET93	HTLEV33			HTLEV95				\neg	HTLEW12		HTLEW21	HTLEY11	T	HTLEY91

											:					126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447					
																7q22	'												
		H0618: 4 and H0253:	3.	H0618: 2 and H0253:	2.	H0253: 2	H0253: 2 and H0618:	1.			H0618: 3 and H0253:	3.		H0253: 4 and H0038:		H0253: 5, H0618: 4,	H0038: 1 and H0616: 1.										H0253: 8 and H0618:	7.	
Pro-47 to Lys-54,	Gly-62 to Arg-72.	Asn-18 to Pro-44,	Val-64 to Phe-70.	Pro-5 to His-12,	Glu-30 to Thr-36.		Ser-20 to Glu-26,	Gly-31 to Ala-46,	Thr-62 to His-67,	Arg-72 to Pro-81.	Ala-4 to Trp-10,	Glu-27 to Gln-32,	Gly-115 to Gly-122.	Asn-7 to Val-12,	Leu-15 to Ser-23.	His-1 to Cys-6,	Glu-24 to Gly-29,	Gln-53 to Asp-59,	Gly-80 to Pro-86,	Glu-142 to Ser-148,	Ser-154 to Val-160,	Pro-163 to Gln-180,	Val-195 to Pro-200,	Lys-205 to Ser-213,	Ala-222 to Glu-228,	Asp-239 to Gly-270.	Gly-11 to Val-29,	Gly-31 to Glu-38,	Ala-40 to Arg-48,
		4140		4141		4142	4143				4144			4145		4146											4147		
		2 - 334		3 - 251		3 - 209	<i>102 - 61</i> 2				409 - 1041			98 - 313		3-812							·				80 - 475		
		1453		1454		1455	1456				1457			1458		1459					* -						1460		
		791662		934288	_	870261	934172				917128			917033		954984											934278		
		HTLEZ14		HTLEZ15		HTLEZ32	HTLFA74				HTLFC20			HTLFE01		HTLFE05											HTLFE20		

		126650, 126650, 154276, 173360, 173360, 602136, 602136, 602136,					
		7q22					
	H0253: 3 and H0038: 2.	AR089: 19, AR061: 13 7q22 H0618: 8 and H0253: 4.	H0253: 1 and H0038: 1.	H0253: 2	AR061: 3, AR089: 1 H0618: 4, H0253: 4, H0616: 2, L0758: 2 and H0038: 1.	L0758: 2, H0618: 1, H0253: 1, H0616: 1 and L0779: 1.	H0618: 4, L0779: 1 and L0758: 1.
Gly-55 to Val-65, Leu-70 to Thr-76.	Pro-24 to Arg-31, Ile-66 to Leu-72, Asp-90 to Glu-98.	Ala-15 to Asp-23, Thr-44 to Tyr-52.	Asp-13 to Leu-26, Val-38 to Val-76.	Gln-7 to Phe-13, Leu-24 to Val-37, Pro-50 to Leu-65.	Gly-3 to Gly-9, Leu-51 to Gln-58, Leu-67 to Ser-74, His-100 to Pro-106, Arg-132 to Arg-138.	His-27 to Ser-39, His-47 to Pro-55.	Thr-13 to Ser-21, Arg-26 to His-44, Ala-85 to Cys-91,
	4148	4149	4150	4151	4152	4153	4154
	2 - 430	2 - 622	19 - 513	2 - 343	28 - 600	287 - 652	2 - 574
	1461	1462	1463	1464	1465	1466	1467
	775392	953730	781303	573462	870136	835493	789656
	HTLF128	HTLF139	HTLF183	HTLFJ39	HTLGD25	HTLGD69	HTLGG36

	H0618: 2, H0617: 1 and L0743: 1.	H0618: 2	AR089: 21, AR061: 16 H0618: 32, H0253: 13, H0616: 6, L0758: 3,	H0038: 2, L0794: 2, H0009: 1, H0688: 1,	L0769: 1, L0372: 1, L0646: 1, L0363: 1,	L0766: 1, L0790: 1,	L0665: 1, H0670: 1 and L0779: 1.	H0618: 9, H0253: 1	H0618- 3 and H0253-	3.		L0748: 4, H0618: 3,	L0751: 3, L0749: 2,	L0777: 2, H0038: 1,	H0616: 1, L0772: 1 and	L0775: 1.		
Thr-104 to Thr-121,	OIY-130 to Atg-103.	Lys-1 to Gly-12, Glu-32 to Phe-41, Arg-69 to Leu-81, Pro-188 to Ile-195.	Arg-1 to Glu-6, Ile-15 to Phe-23, Gly-59 to Phe-72,	Pro-95 to Trp-112, Phe-117 to Pro-129.				Asn-4 to Thr-10,	Arg-39 to Asn-44	Arg-55 to Gly-62,	Arg-98 to Ile-103.	Pro-41 to Gly-57,	Leu-76 to Gly-83,	Pro-87 to Ser-95,	Glu-97 to Pro-106,	He-122 to Glu-128,	Gln-152 to Arg-166,	Thr-180 to Arg-187,
	4155	4156	4157					4158	4159			4160						
	1 - 483	62 - 766	3 - 761					2 - 547	1 - 768			61 - 906						
	1468	1469	1470					1471	1472			1473				,		
	868309	964878	952254					918606	958208			870528						
	HTLGK55	HTLGM02	HTLGM07		··			HTLGT62	HTLGW17			HTLGX90						

	AR061: 7, AR089: 4 H0618: 32, H0253: 13,	H0616: 6, L0758: 3, H0038: 2, 1,0794: 2	H0009: 1, H0688: 1,	L0769: 1, L0372: 1,	L0646: 1, L0363: 1,	L0766: 1, L0790: 1,	L0665: 1, H0670: 1 and L0779: 1.	H0618: 3 and H0253:	H0253: 11, H0618: 8.	L0779: 3, L0758: 3 and	L0768: 1.	H0038: 2, L0747: 2,	H0618: 1, L0665: 1,	L0779: 1 and L0758: 1.	AR089: 35, AR061: 7	H0618: 2		H0618: 2	H0618: 2	H0618: 2			H0618: 26, H0253: 20
Leu-191 to Pro-199, Glu-231 to Cys-241, Val-248 to Asp-255.	Gly-38 to Phe-51, Pro-74 to Trp-91,	Phe-96 to Ala-127, Glu-130 to Glv-148							Gln-1 to Trp-27.	•		Lys-36 to Glu-45.			Phe-6 to Ala-12,	Arg-24 to Arg-35,	Leu-66 to Phe-84.	Glu-37 to Gln-42.		Tyr-31 to Arg-42,	Met-63 to Leu-69,	1 yr-114 to His-123.	Pro-1 to Ala-10,
	4161							4162	4163			4164			4165			4166	4167	4168		00.17	4169
	3 - 503							62 - 508	186 - 1103			298 - 164			87 - 455			11 - 181	350 - 604	1 - 381		000	21 - 893
	1474							1475	1476			1477			1478			1479	1480	1481		1 100	1482
	908428						-	963471	958334			589896			933335			926980	870156	946586	·	130000	8/0254
	HTLHC14							HTLHE72	HTLHL82			HTLH094			HTLHP32			HTLHP52		HTLHT15		Т	HILHI24

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	-			<i>IT</i> -			_	118485,	151670,	231680	272800,	272800,	272800,	276700,	600374,	601780													
	•							15q23-q25	ı																				
and L0758: 1.			L0758: 8, H0618: 4,	H0253: 1, H0038: 1 and	L0769: 1.			H0618: 3									H0618: 2		H0618: 1 and H0253:	1.	H0618: 2, L0764: 2,	H0253: 1, L0492: 1,	H0673: 1 and H0038: 1.		AR089: 7, AR061: 7	H0618: 1 and H0038:	1.	H0618: 2	
Val-27 to Gly-42,	Asp-61 to Asp-66,	Ser-81 to Ala-88.	Gln-10 to 11e-18,	Arg-41 to Ala-59,	His-115 to Lys-128,	Lys-143 to Glu-151,	Thr-164 to Glu-169.	Glu-2 to Thr-7,	Arg-64 to Lys-72,	Glu-77 to Leu-83,	Arg-93 to Ser-102,	Ile-118 to Gln-123.					Ser-134 to Glu-139,	Thr-154 to Leu-160.	Arg-1 to Gln-13,	Phe-16 to Pro-62.	Pro-7 to Lys-15,	Asp-21 to Ser-28,	Gln-53 to Ala-58,	Thr-115 to Asn-127.	Thr-10 to Thr-18,	Pro-58 to Val-65.		Pro-11 to His-17,	Pro-27 to Asp-36,
			4170					4171									4172		4173		4174				4175			. 4176	
		0,0	2 - 943					2 - 700									1 - 675		2 - 241		96 - 656				1 - 417			133 - 312	
			1483					1484									1485		1486		1487				1488			1489	
		0,000	926950					936139									958321		963475		784817				945891			966043	
		A OT THE THIRT	HILHO04					HTLHV67									HTLHZ08		HTLHZ10		HTLIA92				HTLID36			HTLIK11	

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																			-										
	L0758: 6, H0616: 3,	H0038: 2 and H0618: 1.					H0618: 2	H0618: 1 and H0253:	1								AR089: 9, AR061: 8	L0758: 12, H0618: 6,	H0038: 3, H0253: 1,	H0050: 1, L0151: 1 and	L0768: 1.		AR089: 9, AR061: 7	L0758: 10, L0794: 3,	H0618: 2, H0038: 2,	H0253: 1, L0768: 1 and	L0789: 1.	AR061: 0, AR089: 0	H0618: 64, H0253: 52,
Ser-38 to His-43.	Ser-25 to Thr-32,	His-50 to Lys-56,	Glu-111 to Asp-116,	Trp-156 to Lys-161,	Leu-189 to Arg-202,	Asp-258 to Thr-264.		Leu-11 to Leu-17,	Pro-22 to Leu-27,	Pro-40 to Lys-46,	Arg-66 to Pro-73,	Thr-91 to Ser-98,	Val-102 to Lys-108,	Gly-125 to Glu-130,	Leu-138 to Asp-144,	Arg-149 to Arg-158.	Pro-13 to Ala-18,	His-30 to Gln-37,	Gly-49 to Ala-66,	Ala-80 to Lys-92,	Glu-98 to Asp-103,	His-119 to Thr-126.	Pro-18 to Asp-23,	Arg-110 to Gln-122.					
	4177						4178	4179									4180						4181					4182	
	3 - 899						501 - 644	6 59 - E									46 - 609						618 - 97					1 - 1368	
	1490						1491	1492									1493						1494					1495	
	958351						931046	870115									946300						947234					942161	
	HTLIP19						HTLIQ09	HTLIR30									HTLIU76						HTLIV78					HTLIY52	

			126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447				-						-								
			7q22																	· · ·									
L0758: 6, L0779: 2,	H0392: 1, H0038: 1,	L0806: 1 and L0697: 1.	H0618: 8 and H0253:	4.								H0618: 2					AR061: 7. AR089: 5	H0618: 12 H0253: 8	TIONS C TOTES.	HUUSO: 0, LU/36: 0,	L0779: 5, H0616: 3,	T0041: 1, L0776: 1,	S0274: 1 and H0543: 1.				H0618: 1 and H0253:	1.	H0253: 5 and H0618:
	•		Thr-50 to Tyr-58,	Gly-155 to Gln-161,	Thr-164 to Gln-175.							Ile-1 to Trp-9,	Gly-35 to Val-53,	Gly-55 to Glu-62,	Ala-64 to Arg-72,	Glv-79 to Arg-85.	His-1 to Phe-9.	Cvs-13 to Thr-18	Dr. 35 to Cl.: 40	110-33 to GIY-46,	Glu-61 to Pro-68,	Lys-105 to Ala-136,	Thr-144 to Gln-154,	Leu-163 to Gly-171,	Thr-205 to Gln-222,	Pro-251 to Gln-257.	Cys-5 to Ser-15,	Pro-36 to Pro-44.	Arg-15 to Glu-25,
			4183									4184					4185										4186		4187
		,	2 - 814									3 - 572		•			3 - 1355										1 - 192		161 - 760
			1496									1497					1498		-								1499		1500
			953729									934279					922923										967336		953714
			HTLJA23									HTLJA24					HTLJC71										HTLJD35		HTLJD88

						_																						
2.		AR089: 11, AR061: 9	H0253: 7, H0618: 6,	L0794: 2, L0779: 2,	L0595: 2, H0687: 1,	L0438: 1, L0741: 1 and	L0758: 1.	H0618: 3, H0038: 3,	H0616: 3 and H0253: 2.	H0040: 3	H0040: 2	H0040: 2	L0770: 3, L0766: 3.	L0759: 3, L0790: 2,	H0659: 2, H0040: 1,	L0776: 1, L0663: 1,	L0665: 1, L0752: 1 and	L0755: 1.	H0040: 2	H0040: 2			H0040: 2			H0040: 2		H0040: 2
Lys-35 to Val-41,	Gln-70 to Pro-100.	Gln-1 to Thr-12.						Leu-9 to Ser-14.					Leu-10 to Lys-16,	Asn-43 to Ser-49.						Gly-21 to Gly-27,	Pro-38 to Gly-49,	Ser-68 to Asp-73.	Arg-7 to Cys-13,	Ser-16 to Arg-21,	Ala-28 to Gly-33.	Pro-6 to Asn-13,	1 nr-25 to Gly-34.	
		4188						4189		4190	4191	4192	4193						4194	4195			4196			4197		4198
		1 - 921						2-619		132 - 245	74 - 160	2 - 232	3 - 194						1 - 261	29 - 274			91 - 255			61 - 309	,	1 - 156
		1501						1502		1503	1504	1505	1506						1507	1508			1509			1510	:	1511
		924755						922994		835652	723331	509574	707750		•				509657	509453			961057			797726	001001	209128
		HTLJJ75						HTLJL23		HTTAD55	HTTAE49	HTTAH87	HTTAJ35						HTTAJ50	HTTAN57			HTTAS96			HTTAU82	SCHUMENT	H11BE25

H0040: 1, L0438: 1	and H0658: 1.	H0031: 1 and H0040:	1.	H0040: 2	AR061: 4, AR089: 3	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2, L0766: 1	and L0758: 1.	AR061: 5, AR089: 2	H0040: 3		H0040: 2	H0040: 3	H0040: 2		H0040: 1 and H0634:	H0040: 3	H0040: 2	H0040: 3 and L0792: 1.
Pro-14 to Gly-20,	Leu-23 to Asn-33.	Ser-16 to Lys-22,	Ser-29 to Gln-35.		Thr-3 to Arg-14.			Glu-74 to Tyr-79.	Asn-1 to Ser-13.				Phe-86 to Tyr-94,	Val-149 to Lys-155,	Trp-169 to Asn-179, Thr-189 to Glu-197			Gly-13 to Gly-19,	Pro-38 to Gly-50, Glu-67 to Gly-73.		Ser-2 to Val-16, Pro-50 to Tm-56		
4199		4200		4201	4202		4203	4204	4205	4206	4207		4208			4209	4210	4211		4212	4213	4214	4215
177 - 326		106 - 264		114 - 266	3 - 263		54 - 176	2 - 262	248 - 391	3 - 101	72 - 185		3 - 1049			191 - 298	78 - 260	26 - 280		3 - 188	155 - 364	47 - 136	3 - 89
1512		1513		1514	1515		1516	1517	1518	1519	1520		1521			1522	1523	1524		1525	1526	1527	1528
530565		530562		530563	530564		578085	869705	925390	530393	529672		973210	_		526385	917155	161896		989698	973307	573641	523452
HTTBH34		HTTBH41		HTTBH54	HTTBJ94		HTTBN67	HTTCA15	HTTCD03	HTTCD71	HTTCL35		HTTCT34			HTTDF50	HTTDF90	HTTDG36		HTTDI21	HTTDJ65	HTTDL38	HTTDL45

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H0040: 2	H0040: 2	H0040: 2	AR089: 16, AR061: 9	H0040: 2			H0040: 2 and H0670:	H0040: 2 and L0766:	7.	H0040: 2	H0040: 2	H0253: 3, L0758: 2,	H0618: 1, H0038: 1 and	H0040: 1.	H0040: 2	H0618: 1 and H0040:	1.	H0040: 2	H0040: 2	H0040: 2	H0040: 2, L0439: 2,	L0438: 1 and L0747: 1.			H0040: 2, H0616: 1,	L0794: 1, L0779: 1 and
	Gln-8 to Ser-13, Asp-20 to Tyr-27.		Thr-3 to Lys-9,	Gly-14 to His-26,	His-30 to Lys-37,	Lys-43 to Ser-49.	Phe-25 to Phe-38.	Ile-3 to Lys-9.		Gly-8 to His-21.		Pro-33 to Arg-43,	Ala-48 to Tyr-57.			Ser-11 to Ala-19,	Lys-27 to Ala-33.				Lys-8 to Val-20,	Ser-72 to Ala-77,	Ala-84 to Ser-92,	Leu-110 to Lys-119.	Ser-1 to Gln-7,	Arg-9 to Glu-14,
4216	4217	4218	4219				4220	4221		4222	4223	4224			4225	4226		4227	4228	4229	4230				4231	
183 - 341	22 - 387	89 - 313	1 - 333		,		150 - 440	110 - 280		190 - 330	217 - 387	1 - 480			125 - 298	2 - 313		227 - 349	149 - 286	102 - 209	2 - 766				85 - 285	
1529	1530	1531	1532				1533	1534		1535	1536	1537			1538	1539		1540	1541	1542	1543				1544	
959837	734318	783444	908937				273685	790336		573666	920589	921100			692608	523206		573719	747943	745985	967819				573614	
HTTDL89	HTTDN40	HTTDN85					HTTD037	HTTDR91		HTTDR92	HTTDS02	HTTDX84			HTTDZ54	HTTDZ91		HTTEB33	HTTEH58	HTTEL50	HTTEU68				HTTEV62	

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																					133701,	168500,	171650,	176930,	176930,	600623,	600811,
													-					17q			11p11.2-p11.1 133701,	ı					
L0758: 1.		H0040: 4	H0040: 2, H0435: 1,	L0439: 1 and L0759: 1.	H0040: 2	H0040: 1, S0150: 1 and	L0601: 1.	H0040: 2	H0040: 5	H0040: 2, H0169: 1	and L0753: 1.	H0040: 2	H0040: 2, L0794: 2,	L0659: 1, L0809: 1,	L0779: 1 and L0752: 1.	H0040: 3		H0040: 2, L0805: 1	AD061. 6 AD080. 2		H0040: 2, L0748: 2,	L0749: 2 and L0766: 1.					
Pro-16 to Val-24,	Arg-35 to Asp-40.		Ala-1 to Ala-7,	Gly-53 to Lys-67.	Arg-40 to Asn-45.				Asp-14 to Gln-22.				Arg-25 to Trp-32.			Gly-15 to Gly-21,	Pro-31 to Pro-46.										
		4232	4233		4234	4235		4236	4237	4238		4239	4240			4241		4242	4243	CF 7	4244						
		207 - 464	598 - 804		168 - 329	1 - 408		2 - 220	1 - 183	235 - 441		139 - 285	36 - 263			99 - 419		52 - 219	141 - 1070	701 - 111	1 - 273						
		1545	1546		1547	1548		1549	1550	1551		1552	1553			1554		1555	1556		1557						
	_	974107	917903		771602	841018		999698	778426	974284		757358	787599			974346		750942	050051	10001	825922		· ·				
		HTTEY64	HTTEY67		HTTEZ34	HTTFA16		HTTFB60	HTTFG35	HTTFG83		HTTFH70	HTTFK90			HTTFL89		HTTFM17	HTTEM66		HTTFS59			_			

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			1 H0040:	0770: 4, 140: 2,	28: 2, 58: 2.	588: 1,	68: 1,	57: 1,	09: 1,	L0740: 1.	1 H0634:			766: 2,	534: 1,	L0759: 1.			l H0634:	1634. 1			
	H0040: 3	H0040: 2	H0615: 1 and H0040:	L0748: 13, L0770: 4, L0777: 3, H0040: 2,	L0789: 2, L0528: 2, L0789: 2.	H0685: 1, H00	L0662: 1, L07	L0766: 1, L06	L0526: 1, L0809: 1	L0439: 1 and L0740: 1	H0040: 2 and H0634:	1.	H0634: 2	L0755: 3, L0766: 2,	H0031: 1, H0634: 1,	L0439: 1 and L0759:	H0634: 2	H0634: 2	H0040: 1 and H0634:	H0040-1 H0634-	and L0485: 1.	H0634: 2	H0634: 2
	Asn-23 to Gln-29, Arg-37 to Asn-43.	Asp-36 to Lys-41.		·							Lys-20 to Lys-27.		Tyr-12 to Gly-17.				His-54 to Ser-61.	Lys-47 to Asp-56.				Gh-15 to Thr-20.	Ala-17 to Gln-28,
	4245	4246	4247	4248							4249		4250	4251			4252	4253	4254	4255		4256	4257
	34 - 207	47 - 169	53 - 202	63 - 212							114 - 329		436 - 606	207 - 542			2 - 235	2 - 247	32 - 226	547 - 717		338 - 553	158 - 430
	1558	1559	1560	1561							1562		1563	1564			1565	1566	1567	1568		1569	1570
	934460	925544	923105	924775							974066		931004	953479			926752	869636	869635	934089		869634	931015
	HTTFT08	HTTFV93	HTTFW03	HTTFX21			٠				HTTFZ70		HTTHH05	HTTHU43			HTTIG04	HTTIH23	нттин80	HTTIL06		HTTIN23	HTTIU05

	H0634: 3	H0634: 2	H0040: 1, H0634: 1	and L0603: 1.	H0040: 1 and H0634:	Ţ.	H0634: 2			H0634: 2	H0040: 1 and H0634:	1.	H0040: 1 and H0634: 1.	H0634: 2	H0549: 1 and H0634: 1.	H0040: 2 and H0634:	H0634: 2	H0634: 3	H0634: 3	H0634: 3	H0634: 1, H0672: 1	and L0740: 1.	AR089: 1, AR061: 1	H0634: 2	H0634: 2
Pro-73 to Thr-83.		Ser-60 to Pro-69.	Glu-54 to Lys-60,	F10-03 to G1y-74.	Glu-61 to Lys-66,	Met-76 to Asn-83.	Gln-11 to Gly-17,	Glu-26 to Ser-36,	Arg-53 to Ala-60.	Pro-14 to Pro-20.			Arg-29 to Arg-41.		Lys-13 to Arg-21, Gly-26 to Thr-36.					-	Asn-54 to Leu-60.		Thr-15 to Asp-25,	Glu-69 to Leu-89.	Ala-12 to Gly-22,
	4258	4259	4260		4261	•	4262			4263	4264		4265	4266	4267	4268	4269	4270	4271	.4272	4273		4274		4275
	294 - 446	112 - 354	13 - 240		18 - 356		3 - 182			137 - 283	61 - 177		1 - 147	169 - 276	2 - 448	1 - 189	56 - 181	210 - 383	228 - 362	354 - 509	166 - 429		2 - 337		65 - 484
	1571	1572	1573		1574		1575			1576	1577		1578	1579	1580	1581	1582	1583	1584	1585	1586		1587		1588
	922817	930994	839725		869618		869615			913799	934130		974063	958170	948750	960928	915033	974311	974316	974310	920893		911390		926795
	HTTIW81	HTTIZ05	HTTJA11		HTTJA47		HTTJH13			HTTJM01	нттлоо6		HTTIX68	HTTJY08	HTTKD44	HTTKF89	HTTKG34	HTTKK06	HTTKL80	HTTKN21	HTTKN30		HTTKP07		HTTKS13

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		•	H0634: 2		S0042: 2	H0038: 1 and S0042: 1.	H0059: 2		H0059: 2	H0059: 2	H0059: 3	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059-2-1-0657-1	L0809: 1 and L0789: 1.	H0059: 2 and L0766:	-1		H0059: 2	H0059: 2		H0059: 2	H0059: 2 and L0803:	2.	
Pro-38 to Ser-45,	Ala-77 to Pro-83,	Ala-88 to Gly-93.	Thr-1 to Gln-7,	Gly-13 to Gln-37.			Ala-4 to Val-11,	Gly-58 to Leu-64.		Glu-1 to Arg-14.		Gly-23 to Pro-31.	Pro-1 to Lys-7.	Ser-27 to Thr-35.	Asp-13 to Gln-19.		Pro-19 to Pro-28.		Ile-49 to Gly-63,	Ile-66 to Asp-77,	Gly-84 to Ser-90.		Arg-1 to Ser-6,	Tyr-11 to Asp-17.		Thr-14 to Trp-20,	Gly-25 to Pro-30,	Gln-42 to Trp-60.
			4276		4277	4278	4279		4280	4281	4282	4283	4284	4285	4286	4287	4288		4289			4290	4291		4292	4293		
			2 - 193		3 - 224	2 - 163	308 - 81		210 - 347	1 - 309	122 - 322	36 - 164	57 - 224	26 - 334	3 - 164	139 - 327	126 - 254		2 - 271			253 - 62	3 - 122		103 - 294	3 - 302		
			1589		1590	1591	1592		1593	1594	1595	1596	1597	1598	1599	1600	1601		1602			1603	1604		1605	1606	-	
			830008		529157	739638	503626		503445	966804		954359	529727	531165	531163	531110	531108		522213			714187	967604		526819	537530		
			HTTKV17	,	HUDAM29	HUDBZ78	HUKAA62		HUKAB80	HUKAC72	HUKAM82	HUKAX07	HUKCC86	HUKDH28	HUKDH50	HUKEH36	HUKEH50	-	HUKEKSS			HUKEOSS	HUKES11		HUKFL69	HUKFV41		

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AR061: 69, AR089: 1	H0046: 1 and H0059: 1.	T0069: 2	H0056: 2	H0056: 2	H0056: 3	H0056: 7				H0056: 10 and S0134:	1.	H0056: 1, H0623: 1	and L0748: 1.	H0056: 2		H0056: 8	H0056: 6 and L0547:	1. TTOORC. 2	H0030: 2	H0056: 11, L0805: 2,	L0789: 2, S0358: 1,	L0375: 1, L0776: 1,	L0743: 1, L0777: 1 and	L0759: 1.	H0056: 2
Cys-18 to Ser-24,	GIY-29 to Gin-37.	Thr-1 to Asn-10, Ser-18 to Lys-31.			Thr-35 to Asn-45.	Asp-14 to Ala-30,	Val-33 to Tyr-39,	Ile-52 to Lys-58,	Thr-83 to Arg-88.	Ile-1 to Asn-8.		Asn-1 to Ala-14,	Arg-30 to Gly-37.	Leu-40 to Leu-45,	Phe-55 to Leu-60.	Arg-6 to Ala-26.		Clr. 1 to Co. 10	Oly-1 to Sel-10.						Pro-27 to Trp-38, Leu-48 to Arg-56.
4294		4295	4296	4297	4298	4299				4300		4301		4302		4303	4304	1205	4505	4306					4307
2 - 112		1 - 135	184 - 342	145 - 231	122 - 289	3 - 371				163 - 372		1 - 243		79 - 279		139 - 309	38 - 220	151 207	127 - 101	3 - 176					1 - 177
1607		1608	1609	1610	1611	1612				1613		1614		1615		1616	1617	1618	1010	1619					1620
946931		575299	503042	502903	933023	928053				868795		914768		699896		535361	9005ES	500110	717700	921088					707061
HUKFX63		HUNAD94	HUVBB90	HUVBB93	HUVBC12	HUVCQ07				HUVCQ55		HUVCS14		HUVCU71		HUVCW62	HUVDB28	HI IVIDR53	CCCCTOTT	HUVDC15					HUVDD09

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							:																					
H0056: 2		H0056: 2	H0056: 3	H0056: 2, H0623: 1	and L0439: 1.	H0056: 3 and H0623:	3.	H0056: 2	H0623: 2, H0056: 1	and L0748: 1.	H0056: 2 and H0623:	2.	H0623: 2, H0056: 1	and L0758: 1.	H0056: 1 and H0623:	1.	H0040: 1, H0056: 1,	H0623: 1, L0755: 1 and	L0592: 1.	H0056: 2	H0056: 2	H0056: 2, H0615: 1	and H0623: 1.	H0056: 2 and H0623:	1.	H0056: 1 and H0623:],	H0056: 1 and H0623:
Arg-1 to Ser-6,	Arg-13 to Ser-18.		Gly-1 to Arg-12.	Glu-13 to Phe-18,	Gly-46 to Ala-56.	•		Lys-16 to Lys-36.	Ser-21 to Thr-29.	,	Phe-7 to Trp-22.		Ala-2 to Gly-9.				Lys-31 to Gln-40,	Gln-42 to Met-49,	Lys-74 to Thr-82.		Gln-20 to Cys-26.	Arg-12 to Gly-17.				Leu-22 to Ser-31.		
4308		4309	4310	4311		4312		4313	4314		4315		4316		4317		4318	•		4319	4320	4321		4322		4323		4324
1 - 225		2 - 214	3 - 257	29 - 241		111 - 293		3 - 110	233 - 412		1 - 81		224 - 415		3 - 263		318 - 572			1 - 150	75 - 164	3 - 110		148 - 354		170 - 343		175 - 330
1621		1622	1623	1624		1625		1626	1627		1628		1629		1630		1631			1632	1633	1634		1635		1636		1637
961020		526248	522823	530558		719332		530387	679477		986088		958027		099898		430750			534783	527937	530094		6LL898		967815		868782
HUVDF13		HUVDF84	HUVDF88	HUVDI28		HUVDI76		HUVDL30	HUVD025		HUVDP95		HUVDS26	\neg	HUVDU51		HUVED35			HUVED54	HUVED65	HUVEN50		HUVFA55		HUVFB48		HUVFB69

																		•						
1.	H0623: 2 and L0759:	H0623: 2	H0623: 3	H0056: 1 and H0623:	H0623: 2	H0623: 2, L0749: 2,	H0056: 1 and L0794: 1.		H0623: 2	H0623: 3	H0623: 2 and L0534:			H0623: 3, H0616: 1	and L0748: 1.		H0545: 1 and H0623:			H0623: 2		AR089: 2, AR061: 1	H0623: 2, H0056: 1,	L0803: 1, L0750: 1 and
	Phe-1 to Gly-8.	Phe-3 to Arg-8, Arg-21 to Ser-27.	Ser-27 to Gly-32.		Ser-46 to Pro-57.	His-7 to Thr-18,	Gly-53 to Phe-59,	Pro-67 to Ser-74, Val-76 to Leu-85.	Asp-1 to Arg-7.		Thr-3 to Ala-12,	Ser-27 to Ala-32,	Ala-38 to Glu-44.	Arg-1 to Ser-8,	Pro-13 to Pro-18,	Glu-55 to Trp-64.	Asp-1 to Asn-10,	Thr-29 to Trp-43,	Trp-62 to Ser-68.	Thr-9 to Asp-17,	Asp-43 to Arg-48.	Lys-1 to Cys-8,	Glu-31 to Ser-37,	Val-98 to Pro-105.
	4325	4326	4327	4328	4329	4330		`	4331	4332	4333			4334			4335			4336		4337		
	85 - 240	240 - 362	160 - 294	3 - 131	119 - 328	435 - 734			3 - 128	213 - 374	20 - 286			97 - 417			3 - 371			225 - 422		2 - 382		
	1638	1639	1640	1641	1642	1643			1644	1645	1646			1647			1648			1649		1650		
	952080	922064	934003	922898	965765	868784			958059	922727	918233			870617			692898			933942		909169		
	HUVFC07	HUVFH03	HUVFH32	HUVF103	HUVFK11	HUVFK58			HUVFL71	HUVFQ03	HUVFR02			HUVFT28			HUVFT50			HUVFZ06	- 1	HUVGZ77		

										22a13 33)) 															
L0779: 1.	H0056: 1 and H0623:	1. H0623: 3	AR089: 3, AR061: 1	H0040: 1, H0056: 1	and H0623: 1.	H0623: 2	H0623: 2 and H0056:	1	H0056: 1, H0623: 1 and L0367: 1.	H0623: 2 and L0731:					H0623: 2	H0666: 339, H0660: 3,	L0751: 2, H0676: 1,	H0560: 1 and H0520: 1.	H0666: 5	H0666: 2	H0666: 222, L0776: 5,	L0749: 3, S0358: 2,	L0763: 2, L0766: 2,	L0439: 2, L0596: 2,	H0650: 1, H0341: 1,	S0442: 1, H0009: 1,
		Pro-35 to Ser-46.	Pro-5 to Trp-10,	Phe-20 to Met-26,	Leu-85 to Trp-92.		Lys-21 to Lys-27.		Leu-23 to Ser-35.	Leu-51 to Val-56.	Ala-69 to Arg-74.	Thr-82 to Thr-91,	Asp-116 to Ile-126,	Ala-142 to Pro-147.	Thr-47 to Arg-53.	Ala-47 to Phe-55.			His-1 to Ser-6.		Arg-8 to Gly-19,	Pro-22 to Cys-29,	Asp-54 to Cys-65,	Ser-68 to Ala-77,	Glu-97 to Ser-103,	Pro-171 to Leu-176.
	4338	4339	4340			4341	4342		4343	4344					4345	4346			4347	4348	4349					
	145 - 354	200 - 400	51 - 344			158 - 39	33 - 221		313 - 522	1 - 486		•			158 - 361	3 - 206			519 - 632	3 - 62	3 - 560					
	1651	1652	1653			1654	1655	,	1656	1657					1658	1659			1660	1661	1662					
	868751	963129	908555			868697	208896	00000	060756	924621					868649	969208			925844	933449	9522					
	HUVHB35	HUVHB59	ноунс93			HUVHD88	HUVHG80	2011	HOVHIO/	HUVHO40					HUVHU74	HVCAZ38			HVCBV04	HVCCC81	HVCCK04				_	

H0178: 1, H0012: 1, H0087: 1, S0150: 1, L0805: 1, L0655: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, S0374: 1, L0602: 1, L0731: 1 and L0758: 1.	H0672: 2	H0644: 1, H0658: 1 and H0672: 1.	H0672: 2	H0672: 2	L0666: 3 and H0672: 2.	AR061: 1, AR089: 1 H0038: 1, H0672: 1 and L0758: 1.	H0672: 2	H0672: 2	AR089: 3, AR061: 2	H0651: 709, L0766: 5,	L0754: 5, L0756: 3,	L0803: 2, L0779: 2,	L0759: 2, S0354: 1,	H0643: 1, H0013: 1,	H0194: 1, H0545: 1,.	H0373: 1, H0252: 1, H0615: 1 H0316: 1
		Asp-34 to Glu-40.			Cys-14 to Tyr-21.	Glu-38 to Lys-43, Gly-125 to Thr-132.		Lys-12 to Trp-18, Phe-35 to Thr-42.	Cys-17 to Lys-31.				•			
:	4350	4351	4352	4353	4354	4355	4356	4357	4358							
	85 - 273	83 - 277	1 - 240	1 - 1 11	710 - 480	2 - 397	3 - 104	67 - 294	78 - 410							
	1663	1664	1665	1666	1667	1668	1669	1670	1671							
	949141	914354	933675	296896	964102	933167	917559	966816	957834							
·	HVVAC41	HVVAJ01	HVVAJ06		HVVBK45	HVVBK72	HVVBV44	HVVCO01	HWLHJ68							

								179605, 179605,
								6p21.1-p12
H0040: 1, H0641: 1, H0647: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0649: 1, L0804: 1, L0527: 1, L0656: 1, H0144: 1, H0702: 1, H0547: 1, H0555: 1, H0436: 1, S0028: 1, L0746: 1, L0750: 1, L0777: 1, L0780: 1,	L0766: 1 and H0672:	AR089: 14, AR061: 6 H0672: 1	L0731: 2, L0635: 1, L0663: 1, H0672: 1 and L0777: 1.	L0470: 1 and H0623:	L0471: 1 and H0623:	L0766: 3, H0623: 1, L0740: 1, L0745: 1 and L0779: 1.	H0623: 1 and L0439: 1.	AR089: 2, AR061: 2 H0623: 1
			Pro-33 to Gly-38, Leu-45 to Thr-51.	Glu-28 to Arg-36, Pro-41 to Thr-50.		Ala-18 to Arg-25.		
	4359	4360	4361	4362	4363	4364	4365	4366
	137 - 3	2 - 406	288 - 443	215 - 580	1856 - 2053	2 - 397	443 - 204	61 - 1212
	1672	1673	1674	1675	1676	1677	1678	1679
	925793	957658	933528	912011	952479	930892	950681	945834
	HVVDT04	HVVBY08	HVVBM06	HUVHL82	HUVHI06	HUVGP05	HUVFP71	HUVF101

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179605, 179605, 179605, 180297, 230450,	263200, 600364,	601498, 601690																	
			H0623: 1 and L0777:	H0056: 1		H0056: 1	H0056: 1	H0056: 1	H0056: 1	H0056: 1		•	H0056: 1	L0745: 3, L0752: 3,	H0056: 1, L0761: 1,	0803: 1, L0749: 1 and	.0759: 1.	H0055: 1	T0069: 1 and L0779: 1.
					Arg-38 to Thr-45.	-		Gly-12 to Ser-17.			Ile-29 to Val-34,	Ser-52 to Arg-60.	Arg-17 to Ser-38.		4.	ப	7		
			4367	4368		4369	4370	4371	4372	4373			4374	4375				4376	4377
			112 - 258	13 - 177		2-277	200 - 313	1 - 144	80 - 343	420 - 701			1 - 147	2 - 199		•		521 - 384	120 - 278
			1680	1681		1682	1683	1684	1685	1686			1687	1688				1689	1690
·	•		922889	868783		967813	954224	521938	526590	974232			522660	671479				667943	839574
			HUVFE03	HUVDO18		HUVD011	HUVD007	HUVDM27	HUVDH61	HUVCU26			HUVCM76	HUVBC21		-		HUVAA46	HUNAK12

										•															
L0439: 4 and T0069: 1.	AR050: 45, AR051:	39, AR054: 35	T0069: 1	T0069: 1, L0764: 1,	L0771: 1, L0783: 1 and	L0756: 1.	L0754: 4, T0069: 1 and	L0599: 1.	T0069: 1		T0069: 1 and L0764: 1.		T0069: 1 and L0766: 1.	T0069: 1 and L0754: 1.	L0748: 2 and T0069: 1.	T0069: 1 and L0747: 1.	H0059: 1 and L0756:	 H0059: 1 and L0752:	H0059: 1	H0059: 1	AR054: 9, AR050: 2,	AR051: 1	H0059: 1	H0059: 1 and L0747:	L0766: 2 and H0059:
Ser-33 to Ser-38.		Thr-38 to Pro-46.		Glu-26 to His-35,	Pro-44 to Asn-49.				Ala-8 to Ser-14,	Lys-21 to Pro-29.	Thr-26 to Pro-36,	Ile-52 to Ser-60.		Asn-1 to Asn-6.		Lys-1 to Asn-9.		Leu-32 to Tyr-38.	Gly-19 to Ser-24.						Arg-26 to Arg-31.
4378	4379			4380			4381		4382		4383		4384	4385	4386	4387	4388	4389	4390	4391	4392			4393	4394
185 - 352	3 - 221			171 - 326			2 - 205		50 - 214		2 - 388		764 - 461	661 - 59	2 - 190	3 - 170	121 - 85	1 - 174	2 - 241	67 - 213	263 - 433			83 - 226	47 - 364
1691	1692			1693			1694		1695		1696		1697	1698	1699	1700	1701	1702	1703	1704	1705			1706	1707
711543	800452			125196			169961		524239		921132		068896	753817	968754	714264	754186	574525	760581	574523	577349			574381	796014
HUNAG41	HUNAF22			HUNAF20			HUNAE95		HUNAE76		HUNAE02		HUNAD10	HUNAC68	HUNAB76	HUNAB42	HUKFS69	HUKFL89	HUKFL71	HUKFL52	HUKFK53			HUKFES6	HUKFD95

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1.	H0059: 1 and L0779: 1.	H0059: 1 and L0439:	AR061: 14, AR054:	11, rawoo. 2, rawoo. 4	L0758: 2, H0059: 1,	L0789: 1, L0665: 1,	L0749: 1 and L0779: 1.	H0059: 1, L0439: 1	and L0747: 1.	L0455: 1, H0059: 1	and L0753: 1.	L0465: 2 and H0059:	1.	H0059: 1, L0657: 1	and L0748: 1.	L0766: 2, H0059: 1,	L0764: 1 and L0774: 1.				H0059: 1			H0059: 1	H0059: 1
	Pro-7 to Gly-18.									Met-23 to Gly-34,	Glu-40 to Ser-50.			Lys-27 to His-35.		Arg-1 to Asp-7,	Glu-26 to Ser-31,	Glu-51 to Val-56,	Asp-59 to Val-69,	Glu-85 to Asn-94.	Phe-8 to Glu-15,	Val-20 to Thr-25,	Cys-40 to Glu-49.		Pro-18 to Cys-25.
	4395	4396	4397					4398		4399		4400		4401		4402					4403			4404	4405
	29 - 178	532 - 119	852 - 268					234 - 482		33 - 185		3 - 329		1 - 105		76 - 450					77 - 229			84 - 260	2 - 106
	1708	1709	1710					1711		1712		1713		1714		1715					1716			1717	1718
	921504	772501	957456					920815		719465		968333		690933		967742					529718			529723	518537
	HUKEY01	HUKER62	HUKEP18				_	HUKDY02		HUKDU47		HUKDG10		HUKCP30		HUKC011 967742					HUKCL85			HUKCC25	HUKCC15

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H0059: 1	H0059: 1 and L0748: 1.	L0748: 2 and H0059:	H0059: 1	H0059: 1, L0800: 1,	L0794: 1, L0789: 1, L0747: 1, L0750: 1 and	L0362: 1.	H0059: 1, L0775: 1,	L0664: 1 and L0592: 1.		L0750: 2 and H0059:	1.	H0059: 1	H0059: 1 and L0755:	1.		H0059: 1	H0059: 1, L0520: 1,	L0753: 1 and L0731: 1.	H0059: 1	L0439: 2 and H0059:	<u>.</u>		AR050: 75, AR054: 59, AR051: 51
Arg-16 to Cys-22, Pro-83 to Thr-88.			Ala-47 to Thr-53.	Asp-34 to Arg-41,	Glu-44 to Lys-50.		Arg-1 to Gln-7,	Gln-11 to Ser-17,	Ser-41 to His-46.			Lys-1 to Gln-8.	Ser-30 to Val-38,	Gln-44 to Ser-53,	Pro-56 to Gly-63.	Trp-10 to Gly-16.			•		•		Arg-7 to Arg-13, Asn-31 to Ser-37.
4406	4407	4408	4409	4410			4411			4412		4413	4414			4415	4416		4417	4418		5346	4419
399 - 136	351 - 178	379 - 170	150 - 329	314 - 117			139 - 402			159 - 1		317 - 102	2 - 421			1 - 207	274 - 2		369 - 67	286 - 2		156 - 434	213 - 533
1719	1720	. 1721	1722	1723			1724			1725		1726	1727			1728	1729		1730	1731		2659	1732
628540	502711	502911	672076	502912			716927			790487		524257	772734			625273	677470		503630	503627		503628	869026
HUKAT59	HUKAQ76	HUKA047	HUKAM19	HUKAM18			HUKAL44			HUKAJ91		HUKAJ83	HUKAD77			HUKAB63	HUKAB25	\neg	HUKAA54	HUKAA39			HUDBZ01

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S0042: 1		AR054: 2, AR051: 0,		50042: 1	S0042: 1	S0042: 1	S0042: 1		S0042: 1					S0042: 1			AR051: 32, AR050:	31, AR054: 25	S0042: 1				1.0783.1 1.0430.1	L0731: 1 and S0042: 1.	H0634: 1 and L0593:	1.	H0634: 1, L0662: 1	AUG LU/00: 1.
		Gly-43 to Leu-48,	Ser-57 to Lys-67.	-			Glu-17 to Ala-30,	Gly-42 to Thr-56.	Glu-1 to Leu-6,	Cys-10 to Asn-28,	Lys-41 to Tyr-50,	Gln-53 to Ser-60,	Pro-67 to His-78.	Phe-2 to Arg-7,	Asn-23 to Asn-32,	Gln-39 to Asn-45.	Thr-14 to Phe-26,	Gln-46 to Arg-52,	Leu-74 to Tyr-84,	Glu-125 to Glu-132,	Tyr-180 to Ser-186,	Leu-216 to Pro-222,	Glu-27 to Glu-33		Thr-1 to Ser-10.			
	5347	4420		1077	4421	4422	4423		4424					4425			4426						4427	į	4428		4429	
	161 - 3	77 - 487		147 240	14/ - 248	56 - 286	39 - 368		3 - 374					3 - 137			18 - 710		Ÿ				109 - 234		1-171		380 - 240	
	7660	1733		1724	1/34	1735	1736		1737					1738			1739				•		1740		1741		1742	
	915945	896388		705705	08/08/	746508	869034		686520					917361			899753						671974		969547		956206	
		HUDBK39		HI INDEOS	nunbers	HUDBE64	HUDBE48		HUDBE28					HUDBE02			HUDAK54						HUDAK19		HTTKG12		HTTKC85	

H0634: 1 and L0766: 1.	L0770: 3, L0777: 3, L0518: 2, L0779: 2, L0758: 2, L0608: 2, H0634: 1, L0764: 1, L0803: 1, L0749: 1 and L0752: 1.	H0634: 1 and L0565: 1.	H0634: 1, L0803: 1, L0749: 1 and L0779: 1.	H0634: 1	H0634: 1, L0766: 1 and L0588: 1.	L0745: 2 and H0634: 1.	H0634: 1 and L0731:	H0634: 1 and L0748:	L0157: 1 and H0634: 1.	H0040: 1	H0040: 1 and L0439: 1.
	Glu-53 to Gln-62, Gly-80 to Val-86.	Gln-1 to Trp-16, Asp-18 to Gly-25, Leu-38 to Pro-43, Trp-146 to Gly-153.		Lys-11 to Glu-18.			Ala-10 to Thr-16.	Pro-25 to Thr-31, Pro-59 to Gly-72.	Asn-1 to Arg-11, Val-23 to Ser-28, Asp-35 to Tyr-44.	Leu-21 to Gly-30.	Ser-24 to His-34.
4430	4431	4432	4433	4434	4435	4436	4437	4438	4439	4440	4441
61 - 213	132 - 497	2 - 577	395 - 532	136 - 345	86 - 235	452 - 625	195 - 329	1 - 216	87 - 218	128 - 373	146 - 301
1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754
869602	869612	934094	931024	974323	926772	965920	958169	895696	944914	751809	742004
HTTJV79	HTTJN26	HTTJK06	HTTIX05	HTTIR33	HTTIR04	HTTIN11	HTTE08	HTTB12	HTTHJ56	HTTFG12	HTTEZ61

	T	T-					_					_		_													
														104770,	107670,	110700,	135940,	145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,
										·				1q21													
H0040: 1, L0766: 1 and L0748: 1.	H0040: 1, L0803: 1,	AR061: 5. AR089: 5		•	H0040: 1, L0740: 1	and L0747: 1.	AR050: 2, AR051: 1,	AR054: 0	L0439: 3 and H0040:	<u></u>		L0483: 1 and H0040:	1.	L0754: 2 and H0040:	-1												;
	Pro-28 to Thr-38, Glv-47 to Arg-52	Glv-1 to Asp-8.	Leu-15 to Cys-20,	Gly-24 to Ser-29.	Arg-2 to Ile-8,	Ser-34 to Cys-44.	Pro-1 to Glu-7,	Thr-29 to Gly-35,	Glu-63 to Ile-68,	Glu-89 to Asn-95,	Glu-98 to Leu-105.	Arg-10 to Asp-15.		Arg-1 to Trp-9,	Pro-13 to Gly-19,	Gly-24 to Pro-32.											
4442	4443	4444			4445		4446					4447		4448													
57 - 230	2 - 205	1 - 153			396 - 545		1 - 339					1 - 387		511 - 747					·	•							
1755	1756	1757			1758		1759					1760		1761										-			
739445	951/16	900662			728344		699825					932294		744438													
HTTEQ59 739445	нттео01	HTTE059			HTTE053		HTTEJS6					HTTEB05		HTTD059				•									

191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 601652,										
,	AR061: 5, AR089: 5 L0748: 2 and H0040: 1.	H0040: 1 and L0748: 1.	H0040: 1, L0742: 1 and L0592: 1.	H0040: 1 and L0748:	H0040: 1 and L0755: 1.	L0745: 2 and H0040: 1.	L0754: 2 and H0040: 1.	H0040: 1 and L0748: 1.	H0040: 1 and L0592:	L0764: 2 and H0040:
		Ala-4 to Pro-22.	Gly-10 to Cys-16, Arg-25 to Trp-31, Pro-39 to Pro-46.	Arg-83 to Arg-88.	Cys-19 to Pro-29.	Ala-50 to Asp-55.	Lys-15 to Asn-23, Asp-75 to Val-82.	Pro-7 to Ala-26.		Arg-12 to Gly-20,
	4449	4450	4451	4452	4453	4454	4455	4456	4457	4458
:	177 - 401	2 - 241	41 - 178	3 - 392	2 - 241	63 - 266	162 - 413	3 - 236	3 - 272	1 - 615
	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771
	460948	694222	766551	784537	796674	709581	665096	524841	714220	932997
	HTTDM42	HTTDL81	HTTDL75	HTTDA85	нттс095	HTTCJ39	HTTCD06	HTTCB87	HTTBR42	HTTBP62

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		3:	9:		.6	-	ö			ö	1::		.;	.i			
	H0040: 1 and L0748:	H0040: 1 and L0753:	H0040: 1 and L0766:	H0040: 1	H0040: 1 and L0439:	H0040: 1	L0748: 3 and H0040:	H0040: 1		L0747: 2 and H0040:	H0040: 1 and L0591:	L0595: 2, H0040: 1 and L0794: 1.	L0748: 2 and H0040:	L0769: 2 and H0040:			L0752: 2, H0040: 1
08, 1. 137.		1		Ħ	F	F				H _	; <u>™ </u>	an L	<u> </u>		·, ·		
His-102 to Ser-108, Ala-132 to Gln-137	Asn-24 to Asp-32.	Arg-18 to Trp-29.	Asp-1 to Gln-14, Phe-18 to Gly-33.	Tyr-1 to Tyr-12.			Asp-20 to Trm-37					Ser-4 to Lys-12.		Ile-15 to Phe-21,	Pro-31 to Cys-39, Pro-41 to Pro-49	Leu-69 to Pro-74	
	4459	4460	4461	4462	4463	4464	4465	4466	5348	4467	4468	4469	4470	4471			4472
	367 - 170	11 - 202	3 - 203	125 - 256	175 - 435	186 - 311	367 - 627	65 - 262	151 - 342	632 - 787	252 - 440	111 - 230	220 - 420	73 - 294			435 - 632
	1772	1773	1774	1775	1776	1777	1778	1779	2661	1780	1781	1782	1783	1784			1785
	780164	925409	781590	530559	267270	530567	742377	717736	869717	671488	826343	509454	791413	965134			772735
	HTTBO82	HTTBM03	HTTB180	HTTBH95	HTTBH75	HTTBH36	HTTAQ60	HTTAP45		HTTAP21	HTTAP09	HTTAN34	HTTAJ93	HTTAH03			HTTAC77

															•							
and L0756: 1.	L0749: 2, H0040: 1, L0748: 1 and L0591: 1.	H0040: 1 and L0731: 1.	H0618: 1, L0751: 1 and L0758: 1.	H0618: 1	H0618: 1 and L0731:	1	L0591: 2 and H0618:		H0618: 1 and L0770:	1.		H0618: 1 and L0771:	1.		AR054: 35, AR051:	24, AR050: 10, AR061:	8, AR089: 3	H0618: 1, L0766: 1	and L0749: 1.			H0618: 1, L0749: 1
	Asn-14 to Leu-20, Gln-30 to Pro-46.			Gln-10 to Ser-16.	Pro-8 to Ala-15,	Arg-23 to Glu-35, Pro-41 to Val-49.		Glu-33 to Arg-40.	Lys-34 to Pro-40,	Glu-51 to Gly-56,	Glu-117 to Gly-124.	Pro-42 to Ser-47,	Ala-51 to Arg-68,	reu-109 to Giy-117.			Thr-128 to Lys-135.			Ser-49 to Lys-58,	Glu-75 to Pro-91.	Gln-3 to Arg-10,
	4473	4474	4475	4476	4477		4478	4479	4480			4481		60,	4482					5349		4483
	2 - 271	298 - 137	20 - 241	318 - 491	41 - 277		1 - 345	219 - 527	144 - 593			724 - 113		3, 1, 2	730 - 1140					1342 - 1788		165 - 878
	1786	1787	1788	1789	1790		1791	1792	1793			1794		100	3					2662		1796
	793001	710355	934207	974047	808596		870150	870147	870152			933720		0,0,00	894863					946914		865399
	HTTAA94	HTTAA39	HTLIP06	HTLID06	HTLHV59		HTLHU81	HTLHU63	HTLHS69			HILHS05		TAXABLE TAXABLE	HILHKS/							HTLHJS1

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and L0759: 1.		AR061: 1, AR089: 1 H0618: 1 and L0758: 1.	H0618: 1 and L0779: 1.	L0769: 2 and H0618: 1.	L0779: 3, L0758: 3, H0618: 1 and L0600: 1.	L0439: 3, L0753: 3, H0618: 1, L0741: 1,	L0745: 1 and L0746: 1.	H0618: 1 and L0758: 1.	L0794: 2, H0618: 1	and LU/08: 1.	L0439: 3 and H0253: 1.	H0253: 1 and L0767: 1.	AR089: 33, AR061: 18 L0748: 2 and H0253: 1.	H0253: 1
	Pro-87 to Cys-92, Ser-144 to Pro-158.	Glu-1 to Glu-6.		Ser-25 to Asn-32, His-40 to Glu-45.	Arg-14 to Gly-29.	Ser-1 to Lys-12, Met-22 to Gly-29,	Pro-62 to Gly-69.	Glu-35 to Ile-51.		Ciy-21 to Cys-20, Thr-34 to Pro-42, Pro-49 to Glu-57.		Val-25 to Ala-31.	Ala-1 to Ala-35.	Gly-1 to Arg-13, Phe-19 to Arg-33.
		4484	4485	4486	4487	4488		4489	4490		4491	4492	4493	4494
		1 - 375	243 - 566	1 - 483	056 - 259	1 - 393		182 - 388	3 - 350		3 - 305	3 - 416	90 - 422	1 - 429
		1797	1798	1799	1800	1801		1802	1803		1804	1805	1806	1807
		945862	870172	963458	928245	782194		958304	870228		932882	671151	772363	573400
		HTLHB93	HTLHA63	HTLGS10	HTLGR32	HTLGP84		HTLGK08	HTLGC43		нтге092	HTLEP21	HTLEN77	HTLEM92

	\neg			Г		Г			Т		Т	Γ				T	Т					Г	Т	Т	Т		
	H0253: 1 and I 0430.	1.		L0748: 2 and H0253:	1.	H0253: 1	H0253: 1, L0761: 1,	L0649: 1 and L0805: 1.	L0758: 3 and H0253:	-	H0253: 1	H0253: 1 and L0439:				H0253: 1	H0253: 1			H0253: 1 and L0768:	1.	H0253: 1	H0253: 1	H0253: 1	AR061: 2, AR089: 1	L0752: 3, L0747: 2,	H0294: 1, H0253: 1,
Glu-28 to Val-34,	Thr-30 to Glu-35	Asp-101 to Gly-106,	Ser-112 to Ser-117.	Thr-6 to Ser-11.		Ser-5 to Arg-17.	His-1 to Cys-8,	His-35 to Phe-40.	Glu-63 to Ala-68,	Gly-84 to Tyr-102.	Ala-28 to Trp-33.	Ser-13 to Gly-19,	Leu-22 to Asn-36,	Asn-57 to Ser-68,	Pro-82 to Trp-107.	Asp-72 to Leu-78.	Gly-6 to Thr-12,	Pro-28 to Arg-34,	Asn-39 to Asn-47.	Arg-50 to Trp-58.		Ala-14 to Asn-22.					
5350	4495			4496		4497	4498		4499		4500	4501				4502	4503			4204		4505	4506	4507	4508		
360 - 599	7.255	3		138 - 317		3 - 296	109 - 261		3 - 308		1 - 132	2 - 448				1 - 285	23 - 199			152 - 382		3 - 143	6-218	50 - 250	1 - 282		
2663	1808			1809		1810	1811		1812		1813	1814	-			1815	1816			1817		1818	1819	1820	1821		
792812	384407	1		751842		778180	961353		699816		715439	868533				572853	126825			921045		413333	620025	870290	286152		
	HTT FI 16			HTLEG67		HTLDZ81	HTLDW27		HTLD001		HTLDG43	HTLDB18				HTLCZ79	HTLCX66			HTLC002		HTLCG65	HTLCG59	HTLCA03	HTLBH67		

					6p25-pter					•		
H0046: 1, H0040: 1, H0063: 1, H0494: 1, S0352: 1, L0769: 1, L0766: 1, L0804: 1, L0805: 1, L079: 1, H0521: 1, L0779: 1, L0780: 1, L0731: 1 and L0758: 1.	L0758: 2 and H0253: 1.	H0253: 1, L0745: 1 and L0750: 1.	L0439: 3, L0438: 2, H0253: 1 and L0769: 1.	H0253: 1	H0253: 1	H0253: 1	H0253: 1 and L0439:	.	H0253: 1 and L0747: 1.	AR089: 1, AR061: 0 L0439: 2, L0021: 1, H0372: 1, L0769: 1,	LU649: 1, LU /48: 1, LO485: 1, LO604: 1 and LO361: 1.	H0616: 1
		His-1 to Trp-11, Lys-13 to Ser-27, Glu-33 to Ser-38.		Phe-2 to Arg-12.		Ala-1 to Trp-18.	Gln-32 to Leu-37,	Gln-65 to Val-70, Thr-73 to Pro-79.	Gly-1 to Thr-9.	Asp-28 to Leu-35, Asp-52 to Cys-57.		Ser-37 to Ser-43.
	4509	4510	4511	4512	4513	4514	4515		4516	4517		4518
	259 - 408	3 - 590	133 - 492	1 - 228	28 - 165	74 - 226	3 - 320		133 - 426	1 - 363		311 - 496
	1822	1823	1824	1825	1826	1827	1828		1829	1830		1831
	954111	766270	986069	870300	683247	575343	732480		891628	920507		972746
	HTLBC07	HTLBB72	HTLAI30	HTLAF33	HTLAC61				HTLAB29	HTFBE02		HTEQS95

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														_													
H0616: 1			H0616: 1 and L0794:	<u>I.</u>	AR061: 4, AR089: 1	L0758: 2 and H0616:	1.	L0748: 2, H0616: 1	and L0747: 1.		L0758: 3 and H0616:	1.	H0616: 1, L0519: 1,	L0748: 1 and L0779: 1.	AR061: 4, AR089: 1	L0758: 7, L0768: 2,	H0616: 1 and L0151: 1.		H0616: 1 and L0779:	H0616: 1 and L0774:	1.	H0616: 1 and L0779:	I.	LU/38: 3, HU016: 1,	L0794: 1, L0791: 1 and	LU1/9. 1.	H0616: 1 and L0755: 1.
Pro-45 to Pro-50,	Arg-64 to Ser-77,	Ile-88 to Ala-101.	Pro-71 to Cys-82.		Met-12 to Met-24,	Pro-46 to Tyr-52,	Arg-92 to Lys-97.	Val-48 to Gly-54,	Asp-63 to Arg-74,	Gly-87 to Leu-92.	Ala-1 to Met-6,	Gly-9 to Ser-15.	Leu-47 to Thr-59,	Pro-73 to Pro-87.	Tyr-1 to Lys-8,	Phe-19 to Ser-24,	Thr-28 to Ser-34,	Pro-54 to Trp-70.		Lys-22 to Asp-27.		Leu-80 to Lys-86.	A co. 16 to A co. 22	Asp-10 to Arg-23,	Leu-40 to Asp-47.	0	Glu-1 to Ser-10.
4519			4520		4521			4522			4523		4524		4525				4526	4527		4528	4500	4264		7227	4530
88 - 98			129 - 596		3 - 293			147 - 437			263 - 412		614 - 931		839 - 78				159 - 392	1 - 318		18 - 296	2 101	121-0		122	133 - 390
1832			1833		1834			1835		1	1836		1837		1838				1839	1840		1841	1847	7401		1047	1843
973426			870516		908528			958291			870559		870549		948475				948845	836721		870581	82028	000000		700000	933294
HTEQS90			НТЕОР03		HTEQN83			HTEQB08			HTEPY28		HTEPV63		HTEPE35				HTEOY82	HTE0083		HTEOE28	HTFNV44	+ 1 1 1 1 1 1		_	nienvoo

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113721,	247200,	600059,	601545	,						-																		
17p13.3					•																							
L0755: 2 and H0616:				H0616: 1 and L0768:	1.	L0731: 3, H0616: 1	and L0750: 1.							H0616: 1 and L0794:	-	L0748: 2, H0616: 1,	L0439: 1 and L0740: 1.	H0616: 1				H0616: 1 and L0758:	H0616: 1 and L0362:	1.			- 1	AR061: 5, AR089: 1
Arg-30 to Arg-37,	Asn-40 to Glu-46,	Leu-56 to Arg-64,	Ala-85 to Arg-102.	Thr-12 to Ile-17.		Ala-6 to Trp-19,	Leu-34 to Gln-39,	Asp-63 to Arg-76,	Thr-94 to Gly-105,	Asp-108 to Phe-113,	Lys-122 to Phe-128,	Asn-131 to Glu-136,	Arg-142 to Gly-147.	Tyr-2 to His-7.		Pro-43 to Ile-51.		Pro-29 to Thr-34,	Cys-42 to Ser-47,	Gln-52 to His-58,	Pro-68 to Cys-80.		Cys-18 to Lys-43,	Ser-45 to Leu-52,	Ser-63 to Ser-68,	Lys-75 to Arg-80,	HIS-113 to Lys-121.	Ser-38 to Pro-45.
4531	-			4532		4533								4534		4535		4536				4537	4538					4539
3 - 329				15 - 146		54 - 494								58 - 447		149 - 322		109 - 426				907 - 09	1-363					1 - 318
1844				1845		1846								1847		1848		1849				1850	1851		_			1852
773925				\$65028		806062								958382		795314		974363				0888360	880592					813038
HTENS74				HTENR26		HTENQ92								HTENP08		HTENL95		HTENL73				HTENA08	HTEMY05					HTEMV66

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H0616: 1 and L0758: 1.	AR061: 7, AR089: 5	1:0010:1			L0758: 4 and H0616:	1.	H0616: 1 and L0758:	1.	H0616: 1 and L0439: 1.	H0616: 1 and L0747: 1.	H0616: 1, L0779: 1	and LU/58: 1.	H0616: 1 and L0758: 1.	H0616: 1 and L0748:	1.	H0616: 1 and L0594:	1.							H0616: 1, L0764: 1,
	Ala-1 to Gln-7,	Lys-24 to Ser-30, Pro-44 to Asn-53,	Glu-104 to Asp-112,	Leu-152 to Ser-157.	Glu-3 to Cys-9,	Gln-32 to Asp-45.				His-15 to Arg-22.	Arg-24 to Pro-30.		His-44 to Phe-49, Pro-53 to Pro-58.			Pro-28 to His-34,	Lys-51 to Arg-59,	Arg-66 to Phe-82,	Thr-92 to Gln-100,	Ala-106 to Gln-118,	Pro-123 to Leu-133,	Ala-137 to Glu-147,	Arg-185 to Leu-190.	Thr-15 to Lys-28,
	4540				4541		4542		4543	4544	4545		4546	4547		4548								4549
	454 - 963				21 - 197		77 - 361		51 - 137	58 - 378	283 - 573		198 - 374	2 - 250		33 - 641								102 - 296
	1853				1854		1855		1856	1857	1858	1	1859	1860		1861								1862
	944419	•			915308		964769		775543	938396	870613		849214	787549		806421								952274
	HTEMU66				HTEMS01		HTEMO58		HTEMN80	HTEMM91	HTEMI51		HTEMB57	HTELY90		HTELV29								HTELP07

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																			300000.	300066,	300077,	300310	301220	302350,	304050,	304110,	306100,
																			Xp22	1							
L0779: 1 and L0758: 1.	L0758: 2 and H0616:			L0794: 2, H0616: 1	and L0758: 1.	H0038: 1 and L0439:	1.	L0766: 2, H0038: 1,	L0637: 1, L0750: 1 and	L0590: 1.	AR051: 29, AR050:	21, AR054: 21, AR089:	11, AR061: 11	H0038: 1	H0038: 1 and L0756:	1.	L0758: 2 and H0038:	H0038: 1 and L0743:	H0038: 1 and L0595:								
Gly-47 to Thr-54.		Asp-43 to Thr-49,	Leu-63 to Gln-72.	Ala-48 to Lys-57,		His-1 to Lys-7.		Pro-43 to Asn-48.	-						Ala-5 to Arg-15.		Pro-19 to Phe-28.	Ser-5 to Cys-16, Glu-20 to Ile-25.									
	4550			4551		4552		4553			4554				4555		4556	4557	4558								
	63 - 356			185 - 451		43 - 657		68 - 286			83 - 391	<u>.</u>			105 - 428		92 - 241	282 - 401	1 - 279								
	1863			1864		1865		1866			1867				1868		1869	1870	1871						•		
	954982			618699		754010		812862			942526				772397		793039	717850	653252	_							
	HTELM71			HTELA02		HTEKU62		HTEKI62			HTEKH17				HTEKD77		HTEJV94	HTEJO46	HTEJN12								

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309530, 309585, 312040	107910,	107910,	109/00,	114240,	134797,	134797,	134797,	151670,	600839,	601780,	60209				•										
	15q21.1-q21.2107910,																								
	L0748: 2 and H0038:	·										H0038: 1 and L0748:	•					L0779: 3, L0758: 2 and	H0038: 1.	H0038: 1 and L0366:	L0758: 4 and H0038:		H0038: 1 and L0754:		
		.												Arg-1 to Arg-6,	Pro-17 to Ala-23,	Gly-33 to Gln-40,	Arg-45 to Arg-73.	Thr-1 to Glu-7,	<u>;11;</u>	Cys-33 to Asn-38.		5.		 Cys-34 to Lys-39,	Glu-55 to Gln-62,
	4559											4560	12.55	2321				4561		4562	4563		4564		
	23 - 301											601 - 380	,	1 - 330				79 - 264		383 - 135	3 - 299		178 - 417		
	1872											1873	2000	7007				1874		1875	1876		1877		
	696784											490772	07070	0 / 0043				953801		887112	820660		684711		
	HTEJL30											HTEJC70						HTEJB07		HTEIS34	HTEIS25		HTEIN26		

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																									20q13.12 60	
	H0038: 1, L0768: 1, L0438: 1 and L0779: 1	H0038: 1			H0038: 1	H0038: 1 and L0779:	1.	H0038: 1	H0038: 1	L0748: 2 and H0038:	1.	H0038: 1, L0740: 1	and L0754: 1.	H0038: 1, L0779: 1	and L0758: 1.	L0758: 3, L0151: 2,	H0038: 1 and L0779: 1.	L0163: 1 and H0038:	L0758: 3, L0776: 2,	L0779: 2 and H0038: 1.					L0439: 2 and H0038:	
Val-66 to Lys-72.		Asp-19 to Ser-25.	Ile-1 to Phe-9,	Gly-73 to Gly-82.	Gln-1 to Leu-6.	His-1 to Asp-9,	Lys-37 to Glu-45.	Gln-11 to Cys-18.	Pro-2 to Thr-13.	Glu-1 to Ser-18.		Gly-14 to Val-21,	Thr-25 to Leu-32.	Gln-9 to Ala-21,	Thr-24 to Thr-29.	Lys-30 to Leu-39,	Glu-42 to Ser-53.	Gly-10 to Arg-19.	Lys-1 to Arg-27,	Thr-42 to Met-57,	Gln-89 to Ala-95,	Asp-113 to Ser-119,	Thr-128 to Thr-156,	Phe-179 to Ser-187.	Ala-1 to Lys-10,	Pro-29 to Ser-36,
	4565	4566	5352		4567	4568		4569	4570	4571		4572		4573		4274		4575	4576						4577	
	69 - 395	379 - 179	3 - 281		44 - 151	39 - 296		19 - 264	35 - 235	1 - 225		279 - 446		59 - 361		15 - 233		147 - 254	64 - 747						173 - 388	
	1878	1879	2665		1880	1881		1882	1883	1884		1885		1886		1887		1888	1889						1890	
	708304	491030	870667		395868	839966		870671	921926	734983		734976		967439		664436		964956	920628				-		931017	
	HTEIL36	HTEIJS8			HTEID15	HTEB38		HTEIB37	HTEIB03	HTEIA57		HTEHX57		HTEHV11		HTEHS17		HTEHJ11	HTEGW02						HTEGUSS	

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	H0038: 1 and L0766: 1.	AR089: 3, AR061: 2 L0439: 2 and H0038: 1.	H0038: 1 and L0755:	H0038: 1 and L0749:	H0038: 1	H0038: 1 and L0756: 1.	AR050: 9, AR051: 3, AR054: 1	H0038: 1, L0750: 1 and L0755: 1.	H0038: 1, L0766: 1,	L0789: 1 and L0749: 1.		L0591: 2, H0038: 1,	L0381: 1, L0779: 1 and	L0758: 1.		H0038: 1, L0744: 1	and L0756: 1.	H0038: 1
Gly-46 to Ser-58, Ile-62 to Cys-67.	Glu-13 to Ser-20, Pro-33 to Phe-38, Ser-41 to Lys-49.		Asp-26 to Trp-35.		Gly-5 to Gly-12.				Leu-25 to Asp-35,	Ser-41 to Tyr-47, Tm-72 to Pro-77	Lys-106 to Arg-112.	Pro-28 to Tyr-38,	Thr-40 to Lys-48,	Val-61 to Thr-68,	Glu-74 to Gln-82.	Thr-6 to Gln-12.		Ile-1 to Ala-7,
	4578	4579	4580	4581	4582	4583	4584		4585			4586				4587		4588
	130 - 600	3 - 452	272 - 457	74 - 325	3 - 221	2 - 97	3 - 581		3 - 353			133 - 408				150 - 464		2 - 256
	1891	1892	1893	1894	1895	1896	1897		1898			1899				1900		1901
	932987	765901	732630	709420	545137	866069	887616		026999			719280				685383		530196
	HTEGS24	HTEGJ74	HTEGJ56	HTEGI38	HTEGH60	HTEGC30	HTEFX90		HTEFU18			HTEF046				HTEFO28		HTEEU78

			102770,	120280,	120280,	166600,	170995,	232400,	232400,	600309,	601414,	601691,	601691,	601691,	601691,	601718,	602094												
			1p21																		•								2q37.2
	H0038: 1	H0038: 1	H0038: 1 and L0758:							•								H0038: 1		H0038: 1, L0756: 1	and L0758: 1.	H0038: 1, L0794: 1	and L0758: 1.	L0748: 2 and H0038:	1,	H0038: 1	H0038: 1	H0038: 1	L0601: 2 and H0038:
Arg-26 to Gly-38.		Glu-15 to Ser-20.	Ser-14 to Ser-25,	Leu-42 to Glu-62,	Ala-75 to Thr-84.													Pro-40 to Leu-50,	Ser-64 to Gln-74.	Thr-20 to His-29,	Pro-31 to Ser-38.			Ser-11 to Arg-19.					Thr-48 to Ser-53,
	4589	4590	4591															4592		4593		4594		4595		4596	4597	4598	4599
	2 - 115	99 - 227	2 - 280												,,			206 - 97		206 - 373		123 - 341		151 - 288		123 - 260	114 - 344	1 - 204	86 - 511
	1902	1903	1904	_														1905		1906		1907		1908		1909	1910	1911	1912
	707717	575476	530203														-	530200		675071		677513		780161		530201	927850	925353	881958
	HTEEU35	HTEEU27	HTEEU18															HTEEU17		HTEET22		HTEEF25		HTEEB82		HTEDX39	HTEDX04	HTEDX03	HTEDW96

		H0038: 1	H0038: 1 and L0749:	H0038: 1 and L0756:	H0038: 1	H0038: 1 and L0779:	1.	H0038: 1	H0038: 1 and L0740:	1.	H0038: 1	H0038: 1	H0038: 1	H0038: 1	AR061: 3, AR089: 1	H0038: 1	H0038: 1	AR061: 6, AR089: 4	H0038: 1	H0038: 1	H0038: 1	H0038: 1	1	AR050: 42, AR054:
Gly-63 to Arg-68,	Gly-77 to Trp-85, Gln-99 to Gly-112, Arg-131 to Arg-142	Gly-17 to Glu-29.	Ser-47 to Phe-57.	Gly-22 to Arg-28.											Phe-1 to Pro-7,	Trp-32 to Thr-39.	Gly-2 to Ile-13.	Leu-56 to Leu-63,	Gly-103 to Arg-108.	Asn-1 to Gly-17.	Pro-67 to Gly-75.	Ile-1 to Lys-9,	Pro-88 to Lys-100.	Arg-43 to Thr-50.
		4600	4601	4602	4603	4604		4605	4606		4607	4608	4609	4610	4611		4612	4613		4614	4615	4616		4617
		1 - 213	86 - 322	2 - 253	147 - 509	625 - 170	1	60 - 197	137 - 283		3 - 143	29 - 322	233 - 409	92 - 229	3 - 311		3 - 170	18 - 353		1 - 249	80 - 385	2 - 361		162 - 371
		1913	1914	1915	1916	1917	, ,	1918	1919		1920	1921	1922	1923	1924		1925	1926		1927	1928	1929		1930
		530448	785818	727362	934047	960645	7.0005	767024	766343		522827	508086	522969	961028	909165		522940	615250		522936	522938	869427		890715
		HTEDW59	HTEDV86	HTEDU53	HTEDS40	HTEDS06			HTEDK72		HTEDJ92	目		HTEDI01	HTEDH90		HTEDH76	HTEDH42	\neg	HTEDH30	HTEDH17	нтерно6	\dashv	HTEDG75

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		113900.	126340,	126391,	130410,	134790,	138570,	160900,	173850,	258501,	600040,	602225,	602225												
		19q13.3	•																						
35, AR051: 33 H0038: 1	H0038: 1	H0038: 1			-				•					H0038: 1	H0038: 1			AR061: 8, AR089: 3	L0758: 2 and H0038:			H0038: 1	H0038: 1		H0038: 1 and L0750:
	Asn-1 to Arg-8, Leu-18 to Asp-23, Glu-84 to His-89.	Leu-22 to Arg-34.												Ile-1 to Gln-11.	Glu-1 to Gln-7,	Arg-16 to Asp-30,	Pro-35 to Asn-43.	Pro-2 to Trp-7,	His-28 to Gly-35,	Pro-37 to Gly-56,	Gly-68 to Lys-75.	Gly-36 to Gly-52.	Ala-22 to Gly-30,	Asn-36 to Ala-43.	Ser-30 to Arg-36.
	4618	4619	-											4620	4621			4622				4623	4624		4625
	1 - 396	1 - 174												2 - 277	1 - 369			1 - 303				26 - 196	1 - 369		85 - 471
	1931	1932		,										1933	1934			1935				1936	1937		1938
	519947	614726												522977	742368			908406		-		522997	523002		789732
	HTEDG26	HTEDF96												HTEDF70	HTEDF60			HTEDF22				HTECE66	HTECE62		HTECE61

	Т	T	Т		т-									г	T-		T	-	_			т	1		_		_
					126650.	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447														
					7a11-a22	1																					
H0038: 1	H0038: 1	H0038: 1	H0038: 1		H0038: 1									H0038: 1	H0038: 1		H0038: 1	H0038: 1	H0038: 1			H0038: 1	H0038: 1		H0038: 1	:	AR089: 39, AR061: 19
Leu-30 to Arg-40.	Ser-37 to Gly-49.		Ile-1 to Ser-8,	Pro-13 to Ser-19, Gly-31 to Ile-41.	Val-28 to Cys-55,	Arg-71 to Cys-90,	Pro-102 to Pro-107.								Ala-28 to Ser-43,	Ala-57 to Tyr-64.		Ala-10 to Thr-18.	Pro-23 to Val-32,	Ala-54 to Ala-60,	Thr-68 to Gly-73.	Glu-39 to Cys-57.	Phe-1 to Gly-10,	Leu-32 to Cys-39.	Ser-21 to Ser-29,	Ala-31 to Thr-37.	Arg-1 to Pro-6. ∠
4626	4627	4628	4629		4630									4631	4632		4633	4634	4635			4636	4637		4638		4639
85 - 282	63 - 401	33 - 203	2 - 154		1 - 330									246 - 356	2 - 211		144 - 341	3 - 119	3 - 251			3 - 173	20 - 142		74 - 202		3 - 365
1939	1940	1941	1942		1943									1944	1945		1946	1947	1948			1949	1950		1951		1952
870723	650885	508104	960428		527210									527214	527203		533795	527209	523029			508142	508124		508144		629829
HTECE51	HTECE39	HTECE31	HTECE08		HTECD94									HTECD88	HTECD70		HTECD65	HTECD56	HTECD15			HTECC71	HTECC45		HTECC26	\neg	HTECC09

											,	
H0038: 1	H0038: 1	H0038: 1	H0038: 1	L0754: 2 and H0038:	H0038: 1	H0038: 1	H0038: 1	H0038: 1 and L0748:	H0038: 1 and L0758:	L0758: 3, L0666: 2, L0021: 1, H0038: 1 and L0665: 1.	L0439: 2, L0717: 1, H0038: 1, L0769: 1, L0772: 1, L0800: 1, L0666: 1, L0758: 1 and	L0439: 4 and H0038:
		IIe-4 to Lys-23, Arg-87 to Cys-103	Gly-9 to Leu-17, Arg-38 to Glu-44.		Gly-42 to Gln-53, Leu-67 to Glu-76	Glu-16 to Lys-21, Met-25 to Tyr-32.	Pro-7 to Cys-13, Glu-41 to Trp-46, Ser-60 to Gln-65.		Glu-7 to Gly-14.	Ala-7 to Val-13, Pro-15 to Val-21.		Ser-8 to Asn-19.
	4640	4641	4642	4643	4644	4645	4646	4647	4648	4649	4650	4651
	2 - 151	56 - 439	105 - 236	559 - 744	3 - 266	78 - 230	110 - 367	123 - 299	23 - 346	134 - 394	151 - 462	371 - 144
	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	960439	508135	508132	728811	715704	503275	578544	921321	870732	960792	679394	503295
	· HTECC08	HTECA44	HTECA39	HTEBP54	HTEBO43	HTEBM87	HTEBL53	HTEBJ02	нтевно9	HTEAX06	HTEAV22	HTEAU39

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					••																		109270,	109270, 109270,
																						-	17q21	
L0758: 5, H0038: 1 and L0768: 1.	H0038: 1 and L0758: 1.	H0038: 1	L0740: 3, L0731: 3,	L0748: 2, L0757: 2 and	H0038: 1.	H0038: 1		H0038: 1	L0748: 2 and H0038:	1.	H0038: 1 and L0766:	1.	H0038: 1 and L0758:	1.	L0758: 2 and H0038:	1.		H0546: 1, L0598: 1	alia LV/39: 1.	H0546: 1 and L0757:	H0546: 1 and L0756:	1,	H0546: 1	
		Ser-19 to Trp-27.	Asn-14 to Gln-20,	Arg-28 to Glu-40.		Phe-10 to Ser-16,	Ser-24 to Gly-50.		Ala-15 to Leu-24,	Pro-32 to Cys-41.			Ser-17 to Cys-23,	Pro-25 to Ala-32.	Arg-20 to Tyr-28,	Phe-31 to Arg-38,	Asp-44 to Arg-51.	Arg-17 to Gly-22.		Ala-26 to Pro-31.	Phe-1 to Asn-9.		Leu-15 to Phe-35,	Pro-52 to Ser-58.
4652	4653	4654	4655			4656		4657	4658		4659		4660		4661			4662		4663	4664		4665	
45 - 311	79 - 324	373 - 230	3 - 398			216 - 434		145 - 336	146 - 268		17 - 172		7 - 324		106 - 348			87 - 218		3 - 380	12 - 152		15 - 404	
1965	1966	1961	1968			1969		1970	1971		1972		1973		1974			1975		1976	1977		1978	
667184	921323	503298	732562			503533		503546	503623		960469		724751		925522			708291		867537	412991		953051	
	HTEAS02	HTEAR93	HTEAQ55			HTEAJ96		HTEAH75	HTEAG47		HTEAG08		HTEAB50		HTEAA04			HSWBY36		HSWBT69	HSWBE29		HSWAS65	

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109270,	109270,	113705,	113705,	144200,	148065,	148066,	148066,	148067,	148067,	148069,	148080,	154275,	168610,	171190,	176705,	185800,	200350,	221820,	232200,	249000,	252920,	253250,	600119,	600119,	601363,	601844			
	•																												
																											L0744: 3, L0021: 1,	H0546: 1, L0768: 1 and	LU02/: 1.
																									·		Lys-1 to Ser-8.		
																											4666		
													· · · · · ·				_ <u>-</u> _										200 - 418		
																											1979		
																											666302		
										_																	HSWAS18		

	T						
107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750, 248600,			120110, 121014, 142470, 156225, 164200, 164200, 601316, 601410,				1
19q13.2			6q22.1-q22.3				
H0546: 1	H0546: 1	H0383: 1 and L0589: 1.	S0174: 1 and L0755: 1. 6q22.1-q22.3	S0044: 1 and L0748: 1.	L0749: 4, L0748: 2 and S0044: 1.	L0754: 2 and S0044: 1.	L0731: 2, S0044: 1 and
Asn-19 to Asp-30.			Pro-20 to Ser-27.	Lys-9 to Pro-14.		Cys-13 to Pro-26, Pro-34 to Val-40.	Cys-1 to Asn-16,
4667	4668	4669	4670	4671	4672	4673	4674
	194 - 418	71 - 427	155 - 349	141 - 533	168 - 452	166 - 291	17 - 397
1980	1981	1982	1983	1984	1985	1986	1987
471236	958269	936026	727294	839559	924978	785710	789170
HSWAR63 471236	HSWAQ31				HPWDF03	HPWDE86	HPWCJ90

L0749: 1.			S0044: 1				S0044: 1 and L0608: 1.	S0044: 1 and L0581: 1.			S0044: 1 and L0752: 1.		S0044: 1 and L0439: 1.	S0044: 1	L0748: 2 and S0044: 1			S0044: 1				S0044: 1	S0013: 1 and L0756: 1	L0748: 2, S0013: 1 and	L0743: 1.	S0013: 1 and L0740: 1	S0013: 1	S0013: 1 and L0746: 1.
Thr-20 to Asp-44,	Ser-47 to Asn-54,	Phe-66 to Arg-93.	Ser-25 to Glu-33,	Ser-58 to His-68.	Ser-25 to Glu-33,	Ser-58 to His-68.	Asn-32 to Thr-40.	Arg-1 to Ile-6,	Pro-9 to Met-16,	Gly-32 to Arg-37.	Ser-21 to Pro-29,	Leu-42 to Ser-52.	Gln-1 to Gly-11.		Pro-1 to Pro-9,	Ser-36 to Gly-43,	Leu-48 to Gln-62.	Pro-13 to Arg-23,	Pro-41 to Trp-53,	Pro-56 to Lys-65.		Arg-28 to Pro-42.		Asp-9 to Phe-18,	Pro-44 to Trp-52.	His-42 to Lys-52.	1	
			4675		5353		4676	4677			4678		4679	4680	4681	-		4682			5354	4683	4684	4685		4686	4687	4688
			461 - 727		585 - 319		36 - 164	251 - 520			73 - 258		73 - 219	72 - 215	2 - 250			201 - 1			27 - 275	19 - 165	2 - 178	351 - 614		2 - 637	18 - 155	88 - 261
			1988		2666		1989	1990			1991		1992	1993	1994			1995			2667	1996	1997	1998		1999	2000	2001
			638155		812707		707514	720563			676323		535157	575271	932627			468246			867315	693618	829301	848632		773298	526124	961017
			HPWCG85				-	HPWBE47			HPWAT23		HPWAJ85	HPWAJ39	HPWAI05			HPWAH19				HPWAG31	HPVAH71	HPVAH41		HPVAC74	HPVAB16	HPVAB01

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H0212: 1, L0750: 1	L0605: 2, H0212: 1	and L0748: 1.	L0777: 4, H0212: 1,	L0809: 1, L0664: 1 and	L0750: 1.	H0032: 1 and L0748:	1.	L0731: 2 and H0032: 1.	H0032: 1, L0761: 1	H0032: 1		H0032: 1 and L0756:		H0032: 1	H0032: 1 and L0439:	H0032-1 and I 0748-	1.	H0032: 1	H0032: 1				H0032: 1	
Gly-27 to Glu-33,	Cys-40 to Lys-33.					Ser-1 to Thr-9.					Lys-/2 to GIn-/8.	Lys-4 to Val-12,	Ser-23 to Ser-39.		Glu-41 to Ser-46.	lle-1 to Arg-6.	Val-27 to Gly-32.	Arg-6 to Leu-15.	Gln-14 to Tyr-19.	Arg-22 to Asp-27,	Gln-36 to Glu-42,	Leu-46 to Glu-56.	Cys-73 to Lys-82.	
4689	4690		4691			4692		4693	4694	4695		4696		4697	4698	4699		4700	4701	5355			4702	5356
391 - 549	91 - 351	i	81 - 470			296 - 472		37 - 177	2 - 166	45 - 278		3 - 248		2 - 298	175 - 462	2-115		99 - 236	142 - 315	205 - 11			200 - 454	484 - 320
2002	2003		2004			2005		2006	2007	2008		2009		2010	2011	2012		2013	2014	2668			2015	2669
753933	728812		667652			320393	ļ	780264	925420	973740		766311		764710	719340	967762		526623	917289	919513			467480	486123
HPRTJ65	HPRTI54		HPRTI16			HPRCV66		HPRCT83	HPRCN03	HPRCM12		HPRCL72		HPRCI73	HPRCG46	HPRCD11		HPRCC22	HPRCA02				HPRBN23	

-	19p13.3-p13.2108725, 120700, 133171, 136836, 143890, 1475981, 147670, 147670, 147670, 151440, 164953, 188070, 231670, 600276, 601238, 601843, 601846, 602216,				
	H0032: 1 and L0731: 19g	H0032: 1 and L0748: 1.	L0439: 3 and H0032:	L0756: 3, L0747: 2, L0749: 2, H0032: 1 and L0748: 1.	-
	Met-1 to Asn-9.	Ser-21 to Gln-27.		Glu-18 to Val-30.	
5357	4703	4704	4705	4706	5358
106 - 282	93 - 227	183 - 344	1 - 384	338 - 210	373 - 543
2670	2016	2017	2018	2019	2671
867409	695116	781636	781637	503140	503152
	HPRBI87	HPRBH80	HPRAV80	HPRAN56	

H0032: 1	H0032: 1	H0032: 1 and L0749: 1.	H0032: 1			H0032: 1	S0004: 1	H0111: 1 and L0766: 1.	H0111: 1 and L0750: 1.	L0754: 2, H0644: 1, L0747: 1 and L0750: 1.	H0644: 1 and L0755:	H0644: 1 and L0777: 1.	H0644: 1 and L0748: 1.	L0748: 4 and H0644:	H0644: 1 and L0748:	H0644: 1 and L0462: 1.
	Ser-19 to Cys-35.		Gly-7 to Thr-27, Pro-60 to Gln-66.	Ile-1 to Ser-8, Ser-103 to Pro-108.	Arg-9 to Tyr-14.	Thr-13 to Met-23.	Ala-1 to Gln-7.	Lys-13 to Lys-18.		Ser-14 to Arg-19, Glu-43 to Ser-54.		Gln-48 to Asp-65.	Asn-8 to Asp-28.	Lys-15 to Leu-25, Met-29 to Leu-43.	His-4 to Arg-20.	Ser-42 to Ser-52.
4707	4708	4709	4710	5359	5360	4711	4712	4713	4714	4715	4716	4717	4718	4719	4720	4721
300 - 196	3 - 197	267 - 584	281 - 84	3 - 365	1 - 57	2 - 232	2 - 406	192 - 368	30 - 206	558 - 746	105 - 299	3 - 248	87 - 257	242 - 487	2 - 259	277 - 516
2020	2021	2022	2023	2672	2673	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
724753	766496	764757	484691	939849	939850	784594	789290	68836	707476	928283	957945	933895	930874	969483	600856	969596
HPRAN50	HPRAJ75	HPRAG73	HPRAG45			HPRAF86	HPOAB37	HPMSH94	HPMSB35	HPMMK05	HPMMB08	HPMKP06	HPMKC05	HPMJT12	HPMJN08	HPMJK11

H0644: 1 and L0700:	1.	H0644: I and L0774: 1.	H0644: 1, L0606: 1	L0745: 4 and H0644:	H0031: 1		•		H0031: 1 and L0756:	110031.1 2.41 0756.	HOUST: 1 and LU/36: 1.	L0748: 6, H0031: 1,	L0747: 1, L0756: 1 and 1.0596: 1	H0031: 1	H0031: 1 and L0748:			L0747: 2 and H0031:	H0031: 1	L0770: 2, L0779: 2, H0031: 1, L0766: 1,
		Gin-7 to Gly-18, Asp-21 to Met-28.	Tyr-39 to Arg-56.		Glu-36 to Ala-43,	Pro-45 to Lys-57.	Leu-20 to Arg-26,	Ala-38 to Thr-43, Trp-90 to Ala-96.	Pro-18 to Glu-24.			Thr-1 to Ser-6,	Glu-49 to Phe-63.	Lys-28 to Ser-33.	Gln-6 to Gly-11,	Phe-21 to Thr-30,	Arg-50 to Thr-63.			Pro-41 to Ala-63, Gly-69 to Gly-81.
4722	7777	4/23	4724	4725	4726		5361		4727	9027	4/70	4729		4730	4731			4732	4733	4734
293 - 436	100	01 - 381	169 - 2	1 - 327	346 - 158		63 - 350		178 - 378	044 - 730	0++- /07	865 - 1128		85 - 195	177 - 380			6 - 161	203 - 592	112 - 576
2035	2000	7030	2037	2038	2039		2674		2040	2041	2041	2042		2043	2044			2045	2046	2047
867615	607370	70006	789686	965628	491004		881472		660374	463006	00000	705460		662021	812469			690704	867670	920327
HPMJK03	TTDNATT11	FIFINDIII	HPMJE06	HPMJA11	HPMGX92				HPMGR15	HPMG088	2000	HPMGM39		HPMGJ16	HPMGD63			HPMFX29	HPMFL73	HPMFC02

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L0776: 1 and L0758: 1.	H0031: 1 and L0747: 1.	L0604: 3 and H0031:	L0794: 2 and H0031:	1.			L0794: 2, H0031: 1	and L0779: 1.			H0031: 1 and L0455:	L0439: 2 and H0031:	L0748: 3, H0031: 1	and LU/51: 1.	H0031: 1 and L0745: 1.	H0031: 1			H0031: 1 and L0748:	H0031: 1	H0031: 1	H0031: 1 and L0740:
	Gly-4 to His-11, Val-61 to Gly-67.	Leu-21 to Val-36, Pro-38 to Gln-44.	Arg-1 to Phe-9,	Arg-69 to Gln-83,	Lys-85 to Leu-103,	Val-117 to His-122.			Arg-47 to Arg-55,	Lys-/1 to Ala-//.		Lys-42 to Ile-50.			Ser-2 to Tyr-15.	Leu-7 to Leu-12,	Asn-14 to His-27,	Pro-30 to Lys-37.		Arg-27 to Thr-46.		Lys-1 to Lys-8.
	4735	4736	4737				4738				4739	4740	4741		4742	4743			4744	4745	4746	4747
	2 - 361	214 - 366	1 - 390				1 - 258				1 - 111	150 - 1	629 - 426		2 - 169	323 - 442			156 - 410	2 - 154	215 - 63	84 - 233
	2048	2049	2050				2051				2052	2053	2054		2055	2056			2057	2058	2059	2060
	867674	772503	282088				968350				954567	791407	772740		764752	203690			781518	572808	569896	783344
	HPMFB26	HPMEG77	HPMDQ89				HPMDP10		-		HPMDF06	HPMAM93	HPMAL77	╗	HPMAL73	HPMAK71			HPMAJ83	HPMAI80	HPMAI10	HPMAH85

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H0031: 1	H0031: 1 and L0758: 1.	H0030: 1 and L0595:	1.			L0777: 2 and H0030:	H0030: 1 and I 0754:	1.	H0030: 1 and L0758:	1.	L0747: 2 and H0030:	Ι.	H0030: 1 and L0754:	1	H0030: 1 and L0751:	1.	H0030: 1 and L0756:	—	L0518: 2, H0030: 1	H0030: 1, L0747: 1	and L0750: 1.			H0030: 1 and L0748:
	Pro-3 to Gly-11, Ser-43 to Leu-55.	Glu-8 to His-17,	Gln-19 to Gly-43,	Thr-62 to Ser-73,	Pro-80 to Leu-85.	-	Pro-1 to A19-12	Gly-33 to Gln-38.	Ile-36 to Gly-47.		Pro-16 to Ser-23.		Lys-6 to Asn-12.		Leu-30 to Cys-39.		Glu-4 to Arg-9,	Thr-17 to Lys-23.	Lys-22 to Ser-39.	Ser-7 to Gly-15,	<u>~</u>	Thr-96 to Gly-101,	Gly-109 to Arg-133.	His-23 to Asn-37.
4748	4749	4750				4751	4752	1	4753		4754		4755		4756		4757		4758	4759				4760
156 - 296	3 - 221	3 - 278				338 - 499	179 - 343		283 - 450		359 - 559		18 - 155		202 - 348		144 - 326		745 - 491	85 - 489				197 - 3
2061	2062	2063				2064	2065		2066		2067		2068		2069		2070		2071	2072				2073
867711	968723	679217				921331	731065		728517		712707		690962		787208		781854		975477	727885				715732
HPMAH56	HPMAB10	HPLBW22				HPLBW02	HPI.RT54		HPLBT53		HPLBS41		HPLBQ96		HPLBO90		HPLBN79		HPLBB47	HPLAX14				HPLAV44

											,												
1.	H0030: 1, L0517: 1, L0740: 1, L0754: 1, L0777: 1, L0755: 1 and L0758: 1.	·		L0783: 1, L0809: 1 and S0152: 1.	AR061: 4, AR089: 1	S0152: 1 and L0601: 1.	S0152: 1 and L0439: 1.	L0717: 1, S0152: 1 and	L0756: 1.	L0435: 1, S0152: 1,	L0439: 1 and L0747: 1.	S0152: 1 and L0745: 1.	S0152: 1	S0152: 1 and L0604: 1.	S0152: 1 and L0759: 1.	L0532: 1 and S0152: 1.	AR054: 38, AR051:	29, AR050: 28	S0152: 1	S0152: 1 and L0779: 1.	AR061: 6, AR089: 2	S0152: 1	
	Ser-14 to Phe-20.	Leu-3 to Lys-8,	Arg-2/ to Ser-34, Leu-45 to Lys-55.	Gln-9 to Ala-15.			٠	Lys-35 to Lys-42.		Glu-8 to Cys-16.		Pro-26 to Phe-35.								Asn-17 to Met-22.	Gln-1 to Cys-17,	Gln-20 to Lys-28,	110-22 to 501-44.
	4761	5362		4762	4763		4764	4765		4766		4767	4768	4769	4770	4771	4772			4773	4774		
	54 - 461	659 - 372		466 - 341	82 - 408		209 - 352	136 - 327		19 - 318		50 - 220	861 - 61	44 - 406	177 - 392	105 - 301	280 - 417			212 - 358	246 - 506		
	2074	2675		2075	2076		2077	2078		2079		2080	2081	2082	2083	2084	2085			2086	2087		
	968707	11/896		963322	929723		928408	965894		298658		918315	974074	867759	922815	949149	889928			915056	951281		
	HPLAI10			HPJFA10	HPJEV95		HPJEU01	HPJET11		HPJES17		HPJEL02	HPJEG53	HPJDW93	HPJDT03	HPJDP54	HPJDF61			HPJDC01	HPJDA25		

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-											-																	
	L0667: 1 and S0152: 1.	S0152: 1 and L0605: 1.		AK054: 34	S0152: 1	S0152: 1	S0152: 1					S0152: 1	AR051: 17, AR050: 9,	AR054: 8	S0152: 1	L0758: 3, L0779: 2 and	S0152: 1.	L0748: 2 and S0152: 1.	L0439: 2 and S0152: 1.	S0152: 1 and L0592: 1.	S0152: 1 and L0743: 1.	S0152: 1 and L0748: 1.	S0152: 1, L0740: 1 and	L0750: 1.	L0752: 7, L0780: 2,	L0586: 1 and S0152: 1.	S0152: 1	
		Thr-2 to Asn-8,	ASII-49 to Sel-34.	Arg-1 to Gly-7.		Ser-33 to Lys-41.	Pro-10 to Ser-17,	Ser-19 to Arg-24,	Pro-43 to Glu-50,	Arg-56 to Phe-64,	Pro-74 to His-87.	Val-23 to Leu-31.	Ile-20 to Trp-33,	Thr-35 to Gly-45.		Glu-11 to His-16.			Arg-14 to Cys-22.		Phe-2 to Asp-8.				Tyr-10 to Leu-15,	Glu-32 to Gly-41.	His-15 to Gln-26,	Ser-38 to Asn-46.
5363	4775	4776	,	4///		4778	4779					4780	4781			4782		4783	4784	4785	4786	4787	4788		4789		4790	
252 - 13	1 - 195	148 - 396	010	210 - 635		3 - 227	62 - 322					179 - 274	1 - 210			458 - 291		137 - 373	3 - 182	310 - 591	141 - 518	64 - 249	340 - 546		354 - 145		17 - 154	
2676	2088	2089	0000	2090		2091	2092					2093	2094			2095		2096	2097	2098	2099	2100	2101		2102		2103	
951284	928407	494874	0,000	559949		975087	715082					699046	887600			670083		110928	625362	765390	726535	867818	688692		948721		974606	
	HPJCU29	HPJCT81	7000	HPJCIZ6		HPJCS73	HPJCS43					HPJCS32	HPJCN60			HPJCL55		HPJBU40	HPJBU09	HPJBS74	HPJBS52	HPJBS35	HPJBL76		HPJBL30		HPJBK25	

			•		T T			_	_	т-	$\overline{}$	_			_			$\overline{}$	$\overline{}$	_		1	т-				_	
																							134580.	145260,	600105,	600759,	001973	
																							1q32.1	•				
S0152: 1				L0754: 2 and S0152: 1.	S0152: 1					S0152: 1 and L0748: 1.	AR050: 26, AR051:	20, AR054: 10	S0152: 1	AR061: 2, AR089: 1	20122: 1			S0152: 1	S0152: 1	S0152: 1	S0152: 1 and L0439: 1.	L0439: 2 and S0152: 1.	S0152: 1				1	AR051: 32, AR050:
Pro-8 to Leu-18,	Gly-45 to Ala-53,	Pro-56 to Trp-63,	Pro-67 to Arg-73.	Ser-7 to Lys-12.		Ser-41 to Trp-46,	Cys-57 to Gln-68,	Tyr-79 to Gly-84.						Ser-2 to Arg-7.		Gln-10 to Leu-26.		Pro-75 to Phe-84.			Thr-31 to Glu-37.	Ser-42 to Lys-48.	Leu-17 to Asn-31,	Gly-55 to Ala-62,	Arg-66 to Ala-87.		1 1 2	Leu-62 to Ser-75.
4791				4792	4793	5364			5365	4794	4795		٠	4796		2366	2367	4797	4798	4799	4800	4801	4802				000,	4803
2 - 331				252 - 404	762 - 544	104 - 370			643 - 1290	170 - 319	164 - 322			716 - 531		865 - 1110	127 - 612	79 - 360	3 - 176	65 - 166	476 - 652	193 - 2	3 - 278				0,0	20 - 310
2104		_		2105	2106	2677			2678	2107	2108			2109		2679	2680	2110	2111	2112	2113	2114	2115				,;;	2116
974593	_			717088	607408	884685			885717	806718	887830			824243		892302	945194	754858	751384	734503	000699	725761	419786				0,000	887817
HPJBK14				HPJBH45	HPJAX30					HPJAU73	HPJAP92			HPJA013				HPJAN69	HPJAN67		HPJAJ20	HPJAE51	HPJAA27				Т	HPICG93

										120435,	120435	126600,	135300,	136435	152790	152790,	157170,	182601,	278300,	601071,	601771,	602134						
										2p22-p21	•																	
26, AR054: 17	S0150: 1	S0150: 1, L0439: 1 and L0740: 1.	L0439: 2, L0756: 2,	S0150: 1 and L0438: 1.	S0150: 1, L0748: 1 and	L0439: 1.	L0439: 3, S0150: 1,	L0/40: 1 and L0/49: 1.	S0150: 1 and L0748: 1.	S0150: 1 and L0748: 1. 2p22-p21													S0150: 1 and L0751: 1.		S0150: 1	S0150: 1	S0150: 1	S0150: 1
							Lys-79 to Phe-85.		Glu-7 to Ser-13.	Val-3 to Gly-14,	Ser-65 to Gly-72.	,											Ser-49 to Pro-54,	Pro-60 to His-70.				
		4804	4805		4806		4807		4808	4809													4810		4811	4812	4813	4814
		607 - 816	296 - 517		123 - 362		213 - 473		1 - 135	169 - 420													1 - 285		77 - 178	47 - 247	1 - 186	182 - 289
		2117	2118		2119		2120		2121	2122													2123		2124	2125	2126	2127
		935095	708183		743135		786741		867845	838809													785971		867850	715037	698901	688489
		HPICE06	HPIBY36		HPIBT62		HPIBO89		HPIBI89	HPBH31	•••											Т	HPIBC93		HPIBB45	HPIBB43	HPIBB32	HPIBB19

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												164731,	172400,	172400,	180901,	180901,	221770,	248600,	600918,	602716					
												19q13.1	•			_									
L0748: 2 and S0150: 1.	L0717: 2 and S0150: 1.			AR089: 18, AR061: 9	0:1	L0439: 6 and S0150: 1.	S0150: 1 and L0365: 1.		6: 1	6: 1	6: 1	S0148: 1 and L0748: 1. 19q13.1									H0674: 1 and L0362:	H0674: 1 and L0363:		H0169: 1 and L0766:	H0169: 1 and L0747:
L074	L071			AR08	S0150:	L043	S015	Г	S0176: 1	S0176: 1	S0176: 1	S014				·					H067	H067	1.	H016	H016
Ala-6 to Ser-25.	Cys-19 to Trp-24, Ser-29 to Glu-34,	Phe-47 to Trp-52,	Arg-57 to Gly-68.	Gly-36 to Thr-41.		Asp-7 to Thr-15.	Lys-91 to Pro-96.		Val-33 to Lys-39.													Lys-2 to Lys-10.			Pro-108 to Gly-113.
4815	4816			4817		4818	4819	5368	4820	4821	4822	4823									4824	4825		4826	4827
223 - 426	41 - 322			185 - 436		102 - 476	547 - 834	172 - 35 .	157 - 273	52 - 189	3 - 209	417 - 127									1 - 120	414 - 683		398 - 583	3 - 341
2128	2129			2130		2131	2132	2681	2133	2134	2135	2136									2137	2138		2139	2140
790033	111526			973604		774817	L86906	961313	790313	671118	793084	778036							-		933696	961758		709302	780198
HPIAW91	HPIAV06			HPIAQ70		HPIAP79	HPIAD10		HPHSB91	HPHSB21	HPHSA94	HPHAE81									HPFMG06	HPFMB10		HPFDX38	HPFCZ82

1.	H0169: 1 and L0740:	H0169: 1	H0169: 1, L0809: 1 and L0754: 1.	AR050: 7, AR054: 3,	AR051: 1 H0169: 1	AR050: 20, AR051: 4,	AR054: 4 H0169: 1	H0169-1 10766-1	L0776: 1, L0790: 1,	L0741: 1 and L0779: 1.	L0598: 2, H0169: 1	and L0731: 1.	H0169: 1 and L0777:	L0752: 2, H0169: 1.	L0794: 1 and L0751: 1.	H0169: 1 and L0748:	L0748: 2 and H0169:	H0673: 1, L0805: 1	and L0731: 1.	
			Thr-52 to Tyr-57.	Pro-24 to Gly-44,	Pro-47 to Tyr-56.		*****						Cys-6 to His-17.			Gly-33 to Arg-39.	Gly-18 to His-30.	Gly-18 to Glu-29,	Leu-55 to Gln-60,	His-109 to Gly-117, Gly-122 to Pro-127.
	4828	4829	4830	4831		4832		4833			4834		4835	4836		4837	4838	4839		
	298 - 444	33 - 272	93 - 263	435 - 632		138 - 245		72-251			178 - 294		20 - 187	56 - 274		94 - 261	151 - 393	231 - 623		
	2141	2142	2143	2144		2145		2146			2147		2148	2149		2150	2151	· 2152		
	430125	968360	675120	867881		526574		723501			860789		732601	867889		921196	928672	969248		
	HPFCZ60	HPFCZ10	HPFCR23	HPFCP82		HPFCP53		HPFCM45			HPFCM27		HPFCL56	HPFCL24		HPFCG02	HPFCA01	HPELD12		

		T		T	T-		T .	_		T	_			-		_							 	
L0748: 2, H0673: 1 and L0749: 1.	H0673: 1, L0769: 1 and L0768: 1.	H0166: 1	H0166: 1	H0166: 1	H0166: 1		H0166: 1	H0166: 1	H0166: 1	H0166: 1	H0166: 1, L0748: 1	and L0747: 1.	L0770: 2, H0166: 1,	L0665: 1 and L0749: 1.	H0166: 1 and L0745:		L0759: 2 and H0166:			H0166: 1 and L0542:	AR061- 57 AR089- 38	H0166: 1 and L0749:		
			Lys-15 to Gly-25.	Lys-9 to Trp-17.	Lys-26 to Cys-31,	Arg-38 to Asp-46.	Leu-12 to Ser-17.	Asp-20 to His-27.		Thr-78 to Arg-84.	Glu-12 to Thr-39.		Lys-19 to Asn-27.				Gly-2 to Cys-7,	Glu-28 to Glu-40,	Glu-53 to Lys-58.	Phe-26 to Trp-32.	Cvs-14 to Ser-26		Cys-14 to Ser-26,	Glu-40 to Lys-60.
4840	4841	4842	4843	4844	4845		4846	4847	4848	4849	4850		4851		4852	0.00	4853			4854	4855		5369	
43 - 165	159 - 350	1 - 111	29 - 148	45 - 245	<i>1</i> 66 - 98		106 - 300	44 - 301	3 - 98	42 - 317	1 - 228		227 - 313		105 - 341	i d	80 - 277			75 - 284	268 - 504		182 - 361	
2153	2154	2155	2156	2157	2158		2159	2160	2161	2162	2163		2164		2165	33,50	2166			2167	2168		2682	
926104	914414	524246	773844	753692	731002		530021	706836	535061	954214	578516		960240		921767	0,000	/85942			867888	910250		912272	
HPEKI04	HPEKE01	HPEBT82	HPEBT78	HPEBT68	HPEBT54		HPEBT49	HPEBT34	HPEBT14	HPEBT07	HPEB067		HPEBL08		HPEBH01	000	HPEBG89			HPEBG10	HPEBA89			

H0166: 1	H0166: 1 and L0779:	H0165: 1		H0165: 1 and L0744:	L0794: 4 and H0165:		H0165: 1	H0165: 1 and L0526:	1.0759. 2. 1.0769. 1	L0768: 1, L0794: 1.	L0805: 1, H0658: 1,	L0750: 1 and L0777: 1.	L0439: 2, L0717: 1,	L0803: 1, H0658: 1 and L0777: 1.	L0779: 2 and H0658:	1.	H0658: 1 and L0779: 1.	H0658: 1 and L0756:	L0666: 2, L0766: 1,	H0658: 1 and L0604:
	Gly-14 to Ser-19.		Pro-4 to Thr-17.		Ser-7 to Lys-13,	Leu-29 to Ser-36.	Leu-11 to Ala-18, Gly-22 to Ser-41.		Glv-1 to Thr-13	Arg-37 to Ser-45,	Arg-52 to Asn-73.					1	Ala-10 to Lys-18.	Gly-13 to Trp-21.	Pro-65 to His-76,	Asp-11 to Asn-17.
4856	4857	4858	5370	4859	4860		4861	4862	4863				4864		4865		4866	4867	4868	4869
2 - 70	2 - 178	83 - 232	776 - 1117	45 - 383	2 - 178		199 - 414	186 - 308	261 - 548				287 - 472		311 - 433	1	25 - 117	118 - 342	448 - 74	54 - 299
2169	2170	2171	2683	2172	2173		2174	2175	2176			ļ	2177		2178		2179	2180	2181	2182
742251	928027	468542	589933	761472	968847		514231	668298	965249	 : :			928563		658816	7000	965276	965307	109896	951838
HPEBA61	HPEBA05	HPEAG43		HPEAD72	HPEAB12		HPEAA57	HPEAA40	HPDWR11				HPDWN05		HPDVM01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	HPDVDII	HPDRU11	HPDRR06	HPDRN07

				13										
1.	L0748: 2, H0658: 1 and L0750: 1.	H0658: 1, L0777: 1 and L0592: 1.	L0523: 1 and H0658:	H0658: 1	L0766: 2, L0776: 2, H0658: 1 and L0779: 1.	L0769: 3 and H0658:	L0770: 2 and H0658:	H06 5 9: 1, L0740: 1 and L0756: 1.	AR089: 6, AR061: 2 H0659: 1	L0659: 2, H0659: 1 and L0779: 1.	L0805: 1, L0776: 1 and H0659: 1.	L0800: 1, H0659: 1 and L0747: 1.	AR089: 23, AR061: 7 L0439: 2, L0369: 1 and H0659: 1.	AR050: 18, AR054: 18, AR089: 5, AR051:
		Arg-10 to Gln-16, Pro-24 to Gly-30.	Thr-1 to Asn-13, Pro-35 to 1 ys-42	Arg-23 to Val-29.	Met-6 to His-12.					Arg-40 to Gln-47.	Arg-6 to Arg-11.			Pro-18 to Gln-28, Gln-42 to Asn-49,
	4870	4871	4872	4873	4874	4875	4876	4877	4878	4879	4880	4881	4882	4883
	339 - 674	1 - 255	3 - 179	120 - 398	280 - 429	338 - 520	30 - 227	207 - 446	3 - 332	150 - 347	2 - 328	85 - 222	97 - 249	1 - 369
	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196
	914416	969342	969341	957822	961782	961881	965491	917480	922149	925777	951646	954940	911075	946913
	HPDRG01	HPDPS12	HPDPP12	HPDPC08	HPDOW10	HPD0010	HPDOF11	HPCTK02	HPCTD03	HPCTC04	нРСОО07	HPCPM63	HPCOV68	HPCAO89

																								-			
							-													,							
4, AR061: 2	L0761: 1 and S0146: 1.	S0146: 1		S0146: 1 and L0754: 1.	S0146: 1	S0146: 1				S0146: 1 and L0591: 1.	S0146: 1	L0748: 3, L0603: 2,	H0428: 1, L0771: 1,	L0749: 1 and L0757: 1.		H0428: 1	H0428: 1	H0428: 1 and L0750:	AR089: 7 AR061: 2		H0428: 1 and L0766:		H0428: 1 and L0462:				L0439: 12 and H0428:
Ser-72 to Arg-81.		Lys-9 to Tyr-14,	Glu-44 to His-50.		Asp-38 to Ala-43.	Glu-16 to Glu-27,	Glu-35 to Ser-46,	Glu-56 to Ala-64.		Gly-1 to Gly-11.	Pro-21 to Thr-40.		Gln-60 to Trp-74,		Met-106 to Gly-124.			Ser-27 to Gly-32.	Asn-7 to Met-12		Arg-2 to Cys-11,	Cys-15 to Gly-20.	Glu-25 to Pro-39,	Thr-44 to Tyr-50,	Pro-53 to Gln-60,	Ser-67 to Val-82.	Tyr-17 to Gln-23,
		4884		4885	4886	4887			5371	4888	4889	4890				4891	4892	4893	4894		4895		4896				4897
		85 - 237		190 - 348	75 - 275	465 - 271	•	•	145 - 312	2 - 409	8 - 247	49 - 540	-			170 - 328	106 - 201	18 - 179	88 - 444	 : :	2 - 172		3 - 323				120 - 299
		2197		2198	2199	2200			2684	2201	2202	2203				2204	2205	2206	2207		2208		2209				2210
		320415		778177	573368	584754			584755	728857	575233	914553				961865	933737	607926	909030		948619		288196				772210
		HPCAK66		HPCAG81	HPCAF65	HPCAD17				HPCAB54	HPCAB45	HOVEV01				HOVEU10	HOVEU06	HOVEO04	HOVEE20		HOVDD82		HOVDD10				HOVCP77

	H0428: 1, L0752: 1 nd L0759: 1.	H0428: 1 and L0744:	H0428: 1 and L0439:	H0428: 1 and L0750:	1	H0428: 1, L0743: 1,	.0752: 1 and L0592: 1.	L0439: 2 and H0428:	H0428: 1 and L0581:	H0428: 1, L0764: 1 nd L0758: 1.	H0428: 1 and L0740:	L0766: 2, H0428: 1, L0775: 1, L0782: 1, L0783: 1, L0748: 1 and L0758: 1.	H0428: 1, L0748: 1 nd L0581: 1.	L0749: 2 and H0428:
Ser-38. 1.	H0428: 1, L and L0759: 1	9.			H0428: 1		L0752: 1		H0428:	- 4	H0428:	L0766: L0775: 1 L0783: 1 L0758: 1	2.	L0749:
Lys-32 to Ser-38.	4898	4899 Lys-1 to Gln-12, Cys-44 to Lys-49	4900 Arg-30 to Lys-39.	4901 Glu-10 to Thr-18.	4902	4903 Pro-43 to Ser-49.		4904 Asp-33 to Val-38.	4905	4906 Asp-1 to Val-13, Ser-17 to Ser-26.	4907	4908	4909 Gln-1 to Leu-7, Ser-32 to His-42	4910
	11 425 - 586	12 143 - 301	13 107 - 265	2214 159 - 257	2215 194 - 322	2216 938 - 75		2217 124 - 252	2218 210 - 380	2219 200 - 604	2220 116 - 424	21 33 - 263	2222 75 - 353	2223 155 - 355
	0 932544 2211	7 734779 2212	7 772208 2213	924196	786917	959470		702445	465313	858863	757594	8 956238 2221	858857	751665
	HOVCO50	HOVCN57	HOVCM77	HOVCM03	H-JVCI89	HOVCI08		HOVCD33	HOVCC57	HOVBQ07	HOVBK69	ноувк38	HOVBK24	HOVBI67

H0428: 1 and L0748:	H0428: 1	L0740: 2 and H0428:	H0428: 1	H0428: 1 and L0754:		H0428: 1	H0428: 1	L0516: 2, H0428: 1	25 (20 1)	H0428: 1 and L0748: 1.	L0748: 5, H0428: 1 and L0749: 1	H0428: 1 and L0743:	H0428: 1 and L0752:	H0428: 1	H0428: 1	H0428: 1	H0428: 1 and L0748: 1.
	Glu-14 to Pro-19, Arg-24 to Arg-36, Arg-85 to His-90.		Asn-20 to Lys-25.	Val-1 to Thr-11,	Tyr-23 to Leu-31, Arg-47 to Thr-52.	Asn-20 to Glu-26.						Lys-40 to Phe-47.	Val-41 to Lys-46.		Phe-58 to Arg-67, Leu-71 to Thr-77.		Ile-23 to Cys-35.
4911	4912	4913	4914	4915		4916	4917	4918	0,0,	4919	4920	4921	4922	4923	4924	4925	4926
1 - 183	2 - 298	275 - 457	203 - 409	179 - 388		168 - 320	147 - 1	2 - 247	000	112 - 270	3 - 122	279 - 452	2 - 199	22 - 102	245 - 3	181 - 366	36 - 197
2224	2225	2226	2227	2228		2229	2230	2231	0000	2232	2233	2234	2235	2236	2237	2238	2239
069730	904818	750273	827077	736077		713812	921959	745704	27.007	6/8163	725005	953422	932093	953553	016770	578783	608825
HOVBI20	HOVAZ89	HOVAZ65	HOVAY88	HOVAY58		HOVAY42	HOVAY03	HOVAW62	Т	HOVA025	HOVAN51	HOVAJ07	HOVAI05	HOVAF07	HOVAF01		HOVAC54

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H0428: 1	H0428: 1	L0756: 2, L0361: 2, H0428: 1, L0598: 1 and L0592: 1.	L0776: 1 and H0648:	L0758: 3, L0779: 2, H0648: 1 and L0740: 1.	H0648: 1 and L0777: 1.	L0770: 1, L0794: 1, L0804: 1 and H0648: 1.	H0648: 1 and L0750:	L0758: 3 and H0648:	H0648: 1 and L0758:	L0751: 3, L0764: 1, L0518: 1, H0648: 1, L0747: 1 and L0752: 1.	H0648: 1 and L0596:
Gln-12 to Gly-17, Ser-28 to Pro-39.	Asp-1 to Arg-6, Thr-31 to Leu-43, Val-53 to His-59, Pro-61 to Val-73, Ser-81 to Ser-96.		Lys-38 to Lys-50.	Thr-31 to Lys-40.		Arg-21 to Leu-27.	Pro-48 to Phe-72.	Val-16 to Thr-26, Pro-30 to Ser-36, Pro-53 to Glu-58.	Lys-34 to Gly-41.	Pro-42 to Asp-55.	Glu-34 to Glu-44.
4927	4928	4929	4930	4931	4932	4933	4934	4935	4936	4937	4938
45 - 278	3 - 407	256 - 477	210 - 359	508 - 239	17 - 283	3 - 260	205 - 420	37 - 210	248 - 379	280 - 444	2 - 205
2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251
578810	578788	162825	961499	925784	925774	925783	965292	928627	917454	928644	922510
HOVAC26	HOVAB85	HOVAB61		HOOKF04	HOOJU04	HOOJN04	HOOJK11	НООЈН05	HOOJE02	HOOIL05	HOOIG03

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H0648: 1, L0748: 1,	L0751: 1, L0754: 1 and L0749: 1.	H0648: 1, L0754: 1	and LU/50: 1.	L0666: 1 and H0648:		H0028: 1 and L0792:			H0028: 1 and L0777:		L0766: 1 and T0068: 1.	AR051: 655, AR050:	494, AR054: 346	T0068: 1	T0068: 1 and L0749: 1.	T0068: 1 and L0592: 1.	AR061: 1, AR089: 1	T0068: 1 and L0779: 1.	H0435: 1	L0774: 1 and H0435:		H0435: 1	L0439: 2 and H0435:		H0435: 1 and L0743:	H0435: 1 and L0748:
Phe-13 to Gln-24.	<u>, </u>		8		Lys-17 to Gly-24.			Leu-50 to Arg-67.		1.	Glu-1 to Lys-6.	A	4		Gly-18 to Thr-32.	Ser-6 to Lys-14.	A		Ser-1 to Gly-11.		1.	Lys-10 to Asn-16.		1.	11	I
4939		4940	,,	4941		4942			4943		4944	4945			4946	4947	4948		4949	4950		4951	4952		4953	4954
210 - 374		1 - 171	,	1 - 150		249 - 49			196 - 579		3 - 116	677 - 333			344 - 559	174 - 290	732 - 1040		2 - 145	163 - 414		484 - 732	389 - 763		205 - 441	1 - 240
2252		2253	7.200	2254		2255			2256		2257	2258			2259	2260	2261		2262	2263		2264	2265		. 2266	2267
917424		190696	22000	9338/3		522227			932925		968610	636029			723571	747152	859016		973221	922578		973227	657284		463874	964761
HOOHIP02		НООНЕ67) our our	MODHOOH		HOOAB23			HOOAB05		HONAK10	HONAH06			HONAE50	HONAD65	HONAD02		HOGEW23	носром		HOGCW89	HOGCT13		HOGCR31	HOGCR10

		223900, 253800, 253800								-						
		9q31.2														
1,	L0766: 3 and H0435: 1.	H0435: 1 and L0748:	L0369: 1 and H0435: 1.	H0435: 1	L0745: 2 and H0435:	L0748: 2 and H0435: 1.	H0435: 1 and L0439: 1.	H0435: 1 and L0747: 1.	H0435: 1	H0435: 1 and L0777:	L0748: 2 and H0435: 1.	H0435: 1 and L0596: 1.	L0747: 2, H0435: 1,	L0742: 1, L0596: 1 and	L0591: 1.	
	Ser-19 to Asp-31.				Gly-2 to Tyr-8.	Arg-8 to Leu-17.	Ser-17 to Trp-23.	Arg-1 to Phe-13.		Lys-3 to Phe-8.	Arg-1 to Gly-19, Lys-35 to Trp-43.	Asp-22 to His-28, Arg-49 to Ser-54.	Lys-10 to Ser-15,	Arg-44 to Ser-62,	Glu-78 to Thr-83,	Lys-115 to Phe-124, Glu-137 to Asp-148,
	4955	4956	4957	4958	4959	4960	4961	4962	4963	4964	4965	4966	4967			
	3 - 608	2 - 202	126 - 509	247 - 393	101 - 241	298 - 501	208 - 50	2 - 163	973 - 779	227 - 379	221 - 397	163 - 369	2 - 634			
	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280		-	
	859076	930813	220658	761991	745130	208057	847191	682232	908904	764490	681919	760431	734848			
	НОССО54	НОССНО	HOGCE07	HOGCD61	HOGCC63	HOGCA65	HOGBJ26	HOGBE27	HOGAM56	HOGAI73	HOGAI26	HOGAH71	HOGAG57			

	T	Т	Т		Τ										_												
					104770,	107670,	110700,	135940,	145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,	191315,	230800,	230800,	266200,	600897,	601105,	601412,	601652,	602491
					1q21		=								·												
:	L0748: 2 and H0435:	H0435: 1	H0415: 1		H0415: 1																						
Gly-165 to His-171, Glu-189 to Lys-211.			Asp-48 to Glu-53,	Pro-72 to Ser-81.	Glu-17 to His-23,	His-26 to Ser-34,	Gly-40 to Glu-45.																				
	4968	4969	4970		4971																						
	298 - 576	578 - 324	46 - 336		213 - 28																						
	2281	2282	2283		2284																						
	772319	756713			533713									_													
	HOGAD77	HOGAC69	HOFNW81		HOFNW69																						

					-													-										
H0415: 1	AR089: 5, AR061: 3	H0415: 1		H0415: 1		H0415: 1				L0748: 2 and H0415:			H0415: 1			H0415: 1				H0415: 1	H0415: 1	H0415: 1			H0415: 1	H0415: 1	H0415: 1	H0415: 1
Lys-18 to Asp-23.	Arg-14 to Asn-19,	Ala-35 to Ser-45,	Gln-74 to Glu-90.	Asn-12 to Glu-19,	Lys-30 to Phe-35.	Arg-10 to Arg-19,	Asn-50 to Ser-61,	Met-65 to Lys-71,	Ala-83 to Asn-89.	Phe-5 to Pro-10,	Gln-71 to Ser-77,	Lys-86 to Glu-91.	Pro-3 to Ala-17,	Asn-56 to Asp-62,	Gln-85 to Gly-100.	Gln-1 to Ser-6,	Ser-36 to Ser-45,	Leu-47 to Pro-54,	Arg-59 to Gly-69.			Arg-1 to Arg-6.	Gly-9 to His-30,	Arg-48 to Pro-57.		Gln-7 to Gly-15.		
4972	4973			4974		4975				4976			4977			4978				4979	4980	4981	5372		4982	4983	4984	4985
1 - 132	3 - 431			2 - 118		37 - 411				3 - 347			3 - 380			90 - 323				1 - 138	52 - 273	59 - 253	1 - 177		151 - 351	166 - 408	111 - 302	35 - 232
2285	2286			2287		2288			•	2289			2290			2291				2292	2293	2294	2685		2295	2296	2297	2298
753048	815822			720755		953436				724437			888569			788947				784366	760643	760392	773729		859094	859093	713816	859102
HOFNW68	HOFNW65			HOFNW45		HOFNW07				HOFNU50			HOFNL96			HOFNI90				HOFNI85	HOFNI72	HOFNI71			HOFNI58	HOFNI56	HOFNI42	HOFNI37

		T							Τ	T	Τ	Π	Т	Τ		7							Γ				T
						•												-									
5: 1	6:1		1::	AR051: 12, AR050:	12, AR054: 10, AR061:	39: 1		1:1				1:				AR050: 84, AR054:	73, AR051: 55, AR089:)61: 8		AR051: 10, AR054: 9,	2	:1	15, AR050: 9,				
H0415:	H0415: 1	H0415: 1	H0415: 1	AR051:	12, AR(2, AR0	H0415: 1	H0415:	H0415:	H0415:	H0415: 1	H0415: 1	H0415: 1	H0415: 1	Γ	AR050:	73, AR(21, AR(H0415: 1	AR051:	AR050:	H0415:]	AR051:	AR089:	AR054:	H0415:	H0415:
	Gly-1 to Gly-11,	11 CO CO CO	Gln-16 to Gln-23.	Ser-9 to Lys-18.				Glu-21 to Asp-26.		Arg-1 to Thr-15.	Arg-18 to Lys-24.	Arg-18 to Gly-24.	Gln-85 to Pro-91.			Val-17 to Glu-24.				Asp-1 to Leu-10,	Glu-38 to Cys-74.		Asp-1 to Asp-17,	Pro-61 to Asn-66,	Tyr-84 to Tyr-90,	Ser-103 to Trp-110.	
4986	4987	4988	4989	4990	·			4991	4992	4993	4664	4995	4996	4997	5373	4998	•	•		4999			0005				5001
3 - 263	2-217	2 - 193	1 - 201	1-315				139 - 243	179 - 3	2 - 67	187 - 432	2 - 154	256 - 528	993 - 625	217 - 402	87 - 239				3 - 269			3 - 359				3 - 461
2299	2300	2301	2302	2303				2304	2305	2306	2307	2308	2309	2310	2686	2311				2312			2313				2314
859103	665669	964682	917347	832718				774037	613681	731801	725684	489858	743184	824242	902061	888552				891512			947973				972725
HOFNI33	HOFNI32	HOFNI10	HOFNI02	HOFNC80				HOFNC79	HOFNB63	HOFNB55	HOFNB51	HOFMU70	HOFMU67	HOFMU29		HOFMT55				HOFMT45			HOFMS43				HOFMS09

																											•	
					_																	•	-					
AR089: 20, AR061: 9	H0415: 1			AR089: 2, AR061: 1	H0415: 1														H0415: 1		AR050: 21, AR051:	10, AR054: 9	H0415: 1	H0414: 1	AR054: 15, AR051: 3,	AR050: 0	H0414: 1	
Ala-74 to Gly-84,	Lys-28 to Val-33,	Gln-40 to Gly-48.	Asn-33 to Leu-38.	Thr-1 to Lys-7,	Ala-17 to Arg-33,	His-35 to Asn-45,	Glu-47 to Arg-52.	Phe-8 to Ser-21,	Ile-28 to Arg-33,	Ile-40 to Gly-49,	Ala-56 to Gln-61,	Gln-69 to Ser-76,	Ala-91 to Tyr-96,	Thr-119 to Cys-126,	Ser-132 to Arg-144,	Thr-147 to Asp-158.	Arg-17 to Leu-32,	His-43 to Cys-54.	Asp-1 to Asn-6,	Met-46 to Phe-53.	Arg-1 to Gly-14,	Glu-35 to Leu-42,	Thr-54 to Lys-61.			Ser-36 to Asn-42,	His-101 to Pro-107,	Gly-150 to Gln-155,
5002	5003		5374	5004				5375									5376		5005		2006			5007	2008			
1 - 372	145 - 2		3 - 839	2 - 169				3 - 476									1 - 447		3 - 395		2 - 397			271 - 993	3 - 527	 		
2315	2316		2687	2317				2688									2689		2318		2319			2320	2321			
943358	491360		859125	186569				694062									909248		788733		888780			942367	886485			
HOFMP09	HOFMI25			HOFMF82															HOFMF81		HOFMF19			HOFAF25	HOFAD78			

	L0623: 2, H0615: 1 and L0519: 1.	H0615: 1, L0435: 1 and L0759: 1	H0615: 1, L0520: 1	H0615: 1 and L0754:	H0615: 1 and L0758:	<u>.</u>	L0471: 1, H0615: 1,	L0471: 1, H0615: 1	and L0748: 1.	L0777: 2 and H0615:	H0615: 1 and L0775:	1.	H0615: 1 and L0666:	H0615: 1, L0775: 1 and L0748: 1.	L0747: 2 and H0615: 1.	
Ser-167 to Thr-175.	Gly-13 to Ser-20, Arg-41 to Thr-47.	Arg-52 to Asn-61.		Thr-26 to Ser-33.	Arg-1 to Val-10,	Trp-12 to Tyr-20, Arg-47 to Ser-63.	Arg-8 to Arg-16.			Asn-1 to Asp-6, Phe-8 to Ser-14.	Pro-15 to Gly-24,	Cys-36 to Ile-44, Arg-77 to Pro-112.	Ser-17 to Gln-29.	Ser-2 to Ile-16.	His-1 to Arg-7, Ala-45 to Arg-52, Ser-75 to 1 en-80	Arg-89 to Asp-94,
	2009	5010	5011	5012	5013		5014	5015		5016	5017		5018	5019	5020	
	3 - 143	91 - 309	128 - 328	114 - 278	338 - 610		461 - 610	237 - 368		122 - 358	3 - 494		3 - 170	222 - 491	3 - 563	
	2322	2323	2324	2325	2326		2327	2328		2329	2330		2331	2332	2333	
	951875	929321	926200	952193	690996		859300	918476		963350	842138		969588	926278	795281	
	HODKG07	HODJU05	HODJL04	НОДНК07	HODHG11		HODGL88	HODGJ02		HODFY10	HODFX19		HODFX12	HODFX04	HODFW95	

	H0615: 1, L0805: 1 and L0776: 1.	H0615: 1 and L0756:	H0615: 1	L0777: 2 and H0615:	H0615: 1	H0615: 1	H0615: 1 and L0362: 1.	AR054: 34, AR051:	4, AR061: 4	H0615: 1	H0615: 1 and L0748: 1.	AR061: 10, AR089: 4 H0615: 1	H0615: 1 and L0749:	H0615: 1	L0748: 3 and H0615:	H0615: 1 and L0748:	L0534: 1 and H0615: 1.
Arg-139 to Glu-158.			Lys-1 to Thr-22.					His-8 to Gly-18,					Thr-47 to Lys-53.	His-34 to Trp-39.			
	5021	5022	5023	5024	5025	5026	5027	5028			5029	5030	5031	5032	5033	5034	5035
	386 - 556	35 - 199	239 - 463	326 - 460	81 - 338	453 - 593	1 - 150	14 - 544			85 - 249	1 - 576	66 - 242	215 - 436	2 - 286	354 - 127	90 - 200
	2334	2335	2336	2337	2338	2339	2340	2341			2342	2343	2344	2345	2346	2347	2348
	859320	783789	948703	590996	974317	974916	16161	974911			926999	909812	774156	974337	915167	952194	963474
	HODFW40	HODFR85	HODFL37	HODFJ11	HODFI66	HODFH45	HODFG82	HODFF88			HODFE04	HODFD73	HODFC79	HODEZ45	HODEU01	HODET07	HODES10

H0615: 1, L0376: 1	H0615: 1 and L0753:	H0615: 1, L0060: 1	H0328: 1 and L0748:	H0328: 1 and L0756:	H0328: 1 and L0748:	H0328: 1		H0328: 1, L0373: 1	AR051: 30, AR050: 10	H0328: 1	H0328: 1, L0748: 1	and LU396: 1.	H0328: 1, L0748: 1	H0228: 1	H0328: 1 and I 0777:	1.	H0328: 1	H0328: 1 and L0748:	H0328: 1
	Leu-1 to Phe-8.			Thr-1 to Val-7.	Arg-21 to Phe-27,	201-41 O 11-20.	Pro-46 to Tyr-51.	Asp-1 to Asp-8.	Pro-35 to Lys-46.				Asn-36 to Thr-47.						Ser-51 to Leu-56,
5036	5037	5038	5039	5040	5041	5042	5377	5043	5044		5045	7, 62	5046	5047	5048	2	5049	2050	5051
2 - 136	420 - 596	3 - 527	73 - 393	301 - 453	83 - 235	271 - 420	173 - 481	3 - 200	71 - 208		3 - 203	,,,	214 - 414	212 - 352	40 - 207	;	187 - 393	82 - 219	28 - 354
2349	2350	2351	2352	2353	2354	2355	2690	2356	2357		2358	0000	2359	2360	2361		2362	2363	2364
859364	779245	859375	745810	531075	765863	420051	704622	196026	745966		875811	27.72	764543	859543	781287		868291	202099	973286
HODE035	HODEK82	HODEA14	HODDX64	HODDS89	HODDS74	HODDF37		НОDDЕ02	HODCZ64		HODCZ39	SELECTION OF THE	HODCY/3	HODCY32	HODCW83		HODCV61	HODC015	HODCJ84

											 						
	H0328: 1, L0455: 1 and L0777: 1.	H0328: 1 and L0749: 1.	H0328: 1 and L0748: 1.	H0328: 1, L0527: 1 and L0749: 1.	L0598: 2 and H0328: 1.	AR051: 91, AR050:	61, AR054: 56 H0328: 1	H0328: 1	H0328: 1	L0794: 2, L0750: 2,	H0328: 1, L0766: 1,	L0803: 1, L0788: 1 and 1.0755: 1	H0328: 1 and L0792:	L0731: 2 and H0328:	H0328: 1 and L0748:	L0731: 3 and H0328:	L0745: 2, H0328: 1.
Ser-84 to Leu-90.	Val-10 to Glu-16.	Asn-44 to Asn-51.		Pro-43 to Ser-54.	Pro-33 to Phe-39, Tyr-50 to Ser-56.	Gly-1 to Ser-17.		Tyr-35 to Ile-42.		Leu-1 to Gly-12.				His-1 to Gly-6, Cvs-9 to Thr-18.	Thr-8 to Arg-14, Ser-37 to Glu-42	Ser-8 to Ser-13.	
	5052	5053	5054	5055	5056	5057		5058	5059	2060			5061	5062	5063	5064	5905
	397 - 552	62 - 313	60 - 236	344 - 595	997 - 66	203 - 460		1 - 159	24 - 215	2 - 193			196 - 336	126 - 308	104 - 340	280 - 486	18 - 257
	2365	2366	2367	2368	2369	2370		2371	2372	2373			2374	2375	2376	2377	2378
	932633	792611	784526	821096	766284	829228		742114	529387	702750			529389	792579	764670	529635	721931
	HODCC05	HODCA90	HODBZ85	норвх08	HODBU72	HODBK84		HODBF61	HODBF40	HODBF33			HODBF17	норвр93	HODBD73	HODBC42	HODBA48

							230400,	250														
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							9 9p13-p12	1														
L0740: 1 and L0759: 1.	H0328: 1	L0748: 2 and H0328:	H0328: 1	L0748: 3, L0740: 2,	HU328: 1, LU766: 1, L0803: 1, L0659: 1,	.0665: 1 and L0612: 1.		òò	H0328: 1 and L0596:		H0328: 1	28: 1	H0328: 1	H0328: 1 and L0748:		28: 1	28.1	28: 1	28: 1	28: 1	28: 1	H0328: 1 and L0605:
L074	H03	107	H03	1.07	H032	T066	ARO	107	H03	<u></u>	H03	H0328:	H03	H03		H0328: 1	H0328-1	H0328	H0328:	H0328	H0328:	H03;
	Glu-1 to Gly-13, Gly-21 to Thr-28, Lys-43 to Asn-61	Pro-1 to Gly-12.	Lys-1 to Ser-7.						Arg-15 to Thr-22,	Ser-28 to Arg-33.			Asp-1 to Arg-8.			Pro-1 to Gly-20, Ser-27 to Ser-34.				Tyr-15 to Gln-27.	Lys-42 to Thr-47.	
	2066	2067	2068	6905			5070		5071		5072	5073	5074	5075		5076	5077	5078	5079	5080	5081	5082
	2 - 205	2 - 103	43 - 210	177 - 308	-		2 - 169	•	2 - 133		1 - 135	1 - 117	21 - 101	92 - 319		77 - 253	3 - 167	2 - 298	113 - 238	64 - 198	93 - 251	49 - 198
	2379	2380	2381	2382			2383		2384		2385	2386	2387	2388		2389	2390	2391	2392	2393	2394	2395
	826693	723449	592179	679165			745532		932639		529638	529637	529639	921680		790588	784534	529560	529563	859582	529570	859583
	HODAZ21	HODAX45	HODAV84	HODAV24 679165			HODAK55		HODAK05		HODAE72	HODAE55	HODAE48	HODAE01	_	HODAA92	HODAA85	HODAA80	-		HODAA34	HODAA21

																						•					
																											,
1	H0328: 1	H0328: 1	H0328: 1	L0755: 2, L0758: 2,	L0717: 1, L0365: 1 and	H0660: 1.	L0748: 2, L0756: 2,	L0372: 1, L0663: 1,	L0665: 1, H0660: 1,	L0439: 1 and L0777: 1.	L0766: 1, H0660: 1	and L0758: 1.	L0766: 3 and H0660:	1.	L0763: 1, L0776: 1 and	H0660: 1.		-	H0660: 1 and L0731:	H0660: 1 and L0749:	1.	-		H0687: 1, L0803: 1	and L0666: 1.	L0766: 4, L0439: 4,	L0646: 1, H0651: 1,
							Arg-14 to Cys-20,	Val-34 to Cys-43,	Pro-45 to Ser-52.		Ser-18 to Ser-27.		Phe-19 to Tyr-34,	Ser-41 to Arg-51.	Ser-19 to Tyr-28,	Glu-34 to Val-45,	Gly-53 to Pro-58,	Glu-63 to Gln-82.	Asp-21 to Leu-45.	Pro-31 to Gly-36,	Ser-60 to Leu-65,	Gln-69 to Thr-76,	Gly-81 to Glu-87.			Thr-12 to Ser-19,	Lys-28 to Ala-39.
	5083	5084	5085	2086			2087				2088		5089		2090				5091	5092				5093		5094	
	84 - 131	21 - 107	58 - 303	114 - 377			139 - 327				49 - 240		108 - 314		112 - 390				2 - 484	432 - 136				1517 - 1771		464 - 625	
	2396	2397	2398	2399			2400				2401		2402		2403				2404	2405				2406		2407	
	523382			928651			917453				917630		951744		914464				878363	914552				220696		926258	
	HODAA15	HODAA07		HOCPU05			НОСРН02				HOCPF02		HOCOV07		HOCMM01 914464				HOCMI24	HOCMC01				HNOJJ12		HNOAD04	

																181430,	232800	600808,	601284,	601769,	601769,	011700
		•														12q13.3	•					
L0756: 1 and L0759: 1.	H0678: 1	AR051: 4, AR054: 0 H0678: 1	S0326: 1	S0326: 1	S0326: 1, L0769: 1 and L0774: 1.	H0662: 1 and L0748: 1.	H0662: 1 and L0766:	H0662: 1, L0794: 1	and L0758: 1.	H0662: 1 and L0524:	1.	H0662: 1, L0764: 1,	L0758: 1 and L0599: 1.			H0553: 1 and L0754:		i				
			Gln-27 to Asn-35.		Arg-14 to Trp-19.		Tyr-6 to Thr-15.	Glu-1 to Tyr-7,	Pro-42 to Leu-47, Pro-50 to Ala-57.	His-1 to Phe-6,	Asn-58 to Met-65.	Pro-6 to Cys-24,	Asn-65 to Leu-73,	Gln-81 to Gly-90,	Gly-100 to Gly-115, Asn-118 to Ser-126.							
	5095	2096	5097	2098	5099	5100	5101	5102		5103		5104				5105						
	358 - 161	588 - 361	1111-1	2 - 346	387 - 73	261 - 16	3 - 104	321 - 521		109 - 336		3 - 437				3 - 245						
	2408	2409	2410	2411	2412	2413	2414	2415		2416		2417	•			2418			•			1
	957719	899742	683077	764172	974750	61 <i>LL</i> 16	922402	933673		914361		961734				754476]
	HNNNB08	HNNNA07	HNIAB92	HNIAB73	HNIAB26	HNBVH02	HNBVC03	HNBUQ06		HNBU001		HNBUI10				HLWFJ69						

		T			7	1		T							
			256540,	600281,											
			20q13.1												
H0553: 1 and L0794:	L0617: 1 and H0553:	H0553: 1 and L0747:	H0553: 1 and L0758:	1.	H0553: 1 and L0512:	H0553: 1 and L0740: 1.	H0553: 1 and L0596:	H0553: 1 and L0748:	H0553: 1 and L0756:	H0553: 1 and L0752:	1.	H0553: 1, L0591: 1	H0553: 1, L0783: 1 and L0749: 1.	H0553: 1	
Lys-38 to Gly-43.	Gln-1 to Ala-17, Arg-47 to Gln-52.	Lys-1 to Thr-6, Ser-32 to Ser-38.		•	Trp-5 to Lys-11.	Pro-31 to Gln-38, Ser-58 to Gly-69.	Phe-1 to Gly-6, Phe-40 to Gly-49.	Glu-4 to Ala-9.	Val-33 to Ser-38.	Pro-14 to Arg-26,	Pro-28 to Ser-33, Gly-48 to Ala-56.			Pro-6 to Glu-18,	Pro-20 to Trp-40, Lys-86 to Arg-92.
5106	5107	5108	5109		5110	5111	5112	5113	5114	5115		5116	5117	5118	:
56 - 328	1 - 204	179 - 331	2 - 259		1 - 216	215 - 514	1 - 207	219 - 392	2 - 250	1 - 297		3 - 503	278 - 466	278 - 3	
2419	2420	2421	2422		2423	2424	2425	2426	2427	2428		2429	2430	2431	
915399	963548	787632	917643		915378	856512	739801	791854	723787	690182		566189	720156	623773	
HLWFB01	HLWEH10	HLWEA90	HLWDZ31		i	HLWDB48	HLWCP60	HLWCN93	HLWCN50	HLWCF83		HLWCF33	HLWCE47	HLWCB93	

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						136550, 602772							-	
						6q16.1-q16.3								
	H0553: 1 and L0751:	H0553: 1 and L0748: 1.	AR050: 49, AR054: 47, AR051: 27 H0553: 1	H0553: 1, L0766: 1 and L0747: 1.	L0747: 2 and H0553: 1.	H0553: 1 and L0748:	H0553: 1 and L0759: 1.	H0553: 1 and L0754: 1.	H0553: 1 and L0748:	H0553: 1, L0665: 1, L0439: 1 and L0759: 1.	AR054: 15, AR050: 3,	AR051: 2 H0553: 1	1.0001	
Ser-15 to Ser-23.	Arg-11 to Ser-17.	Arg-2 to Gly-7, Ile-28 to Ile-34, Ser-56 to Val-62.	Ser-1 to Glu-28.	Gly-11 to Trp-16, Cys-53 to Gly-78, Arg-99 to Asp-105, Ser-113 to Glu-119.	Lys-9 to Asn-22.		Leu-20 to Asp-38.	Glu-8 to Gln-18.	Pro-2 to Thr-7, Ala-13 to Arg-20.	Arg-12 to Gly-21.	Glu-7 to Glu-13,	Trp-18 to Thr-32, Pro-34 to Arg-44	Gly-51 to Trp-60,	Pro-62 to Ala-72.
5378	5119	5120	5121	5122	5123	5124	5125	5126	5127	5128	5129			
3 - 200	44 - 382	1 - 195	3 - 419	9 - 365	221 - 370	1 - 303	270 - 467	95 - 301	39 - 371	172 - 381	2 - 232			
2691	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442			
856519	917920	690515	887877	743406	784261	790072	747784	791355	890888	721530	196188			
}	HLWBX42	HLWBW29	HLWBT09	HLWBS62	HLWBR85	HLWBQ91	HLWB165	HLWBH92	HLWBG78	HLWBF48	HLWBE74			

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L0747: 2, H0553: 1	and L0794: 1.					H0553: 1 and L0755:	1.		H0553: 1 and L0749:	1,		H0553: 1 and L0759:	1.							H0553: 1	AR089: 4, AR061: 2	L0539: 1 and H0553:	-	H0553: 1 and L0745:		AR054: 55, AR050:	51, AR051: 48, AR089:	4, AR061: 2 H0553: 1
Pro-2 to Val-21,	Asp-23 to Val-30,	Gly-36 to Leu-41,	Met-49 to Gly-55,	Thr-72 to Lys-78,	Ile-92 to Asp-97.	Lys-6 to Leu-12,	His-39 to Leu-57,	Ile-61 to Asp-66.	Lys-6 to Asn-13,	Gly-31 to Gly-36,	Glu-91 to Ser-99.	Lys-11 to Arg-23,	Cys-25 to Cys-31,	Pro-33 to Tyr-38,	Arg-46 to Ile-60.	Leu-17 to Gln-23,	Gln-38 to Phe-44,	Gln-65 to Gln-72.	Thr-80 to Tyr-86.	His-27 to Ile-34.	Tyr-46 to His-52.						7.	
5130						5131			5132			5133				5379				5134	5135	_		5136		5137		
2 - 412						3 - 347			2 - 322		ï	1 - 273				115 - 462				74 - 235	3 - 290			35 - 214		124 - 2		
2443						2444			2445			2446				2692				2447	2448			2449		2450		
869611						720397			931387			785395				941397				625419	959139			751503		948928		
HLWBC21						HLWBA80			HLWBA27			HLWAW86								HLWAS09	HLWAR08			HLWAO67		HLWAL31		

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		600281,																									
		20q12-q13																									
		H0553: 1 and L0439:	H0553: 1 and L0758:					H0553: 1 and L0439:	-1	H0553: 1		H0553: 1, L0754: 1	and L0755: 1.	H0553: 1	H0553: 1 and L0663:		L0794: 2, L0766: 1,	L0665: 1 and H0689: 1.				L0777: 2, H0545: 1	and L0754: 1.		H0545: 1 and L0756:		H0545: 1 and L0599:
Arg-9 to Pro-15,	Leu-114 to Val-120, Cvs-147 to Cvs-156.		Arg-1 to Ser-6,	Phe-13 to Gln-24,	Glu-31 to Arg-40,	Ser-48 to Asn-56,	Asp-69 to Val-75.	Pro-21 to Gln-27,	Glu-53 to Ser-60.	His-1 to Ala-7,	Thr-34 to Leu-39.	Arg-1 to Arg-10,		Asn-42 to Lys-48.	Arg-2 to Phe-7,	Thr-68 to Asn-73.	Gly-11 to Ile-17,		Gln-47 to Ala-64,	Pro-66 to Ala-72,	Gly-77 to Gly-84.	Leu-2 to Arg-11,		Lys-54 to His-64.	Ser-48 to Lys-57.		1yr-47 to Ser-58.
5380		5138	5139					5140		5141		5142		5143	5144		5145					5146			5147	6140	5148
23 - 511		41 - 214	156 - 449					444 - 133		2 - 166		190 - 468		49 - 219	13 - 252		1 - 324					2 - 286			158 - 328	06 300	96 - 380
2693		2451	2452					2453		2454		2455		2456	2457		2458					2459			2460	2461	7401
971312		666281	919714				$\overline{}$	789030		734655		702317		699158	919725		965175					895899			772101	064464	904404
		HLWAJ18	HLWAF02					HLWAE09		HLWAD57		HLWAD33		HLWAD32	HLWAD02		HKZAH11					HIMBX19			HJMBS77	HIMB610	UISSINITU

					141750,	141800,	141800,	141800,	141800,	141850,	141850,	141850,	141850,	141850,	156850,	186580,	191092,	600140,	600273,	601313,	601785				
					16p13.3																				
11.	H0545: 1 and L0747:	H0545: 1 and L0763: 1.	H0545: 1 and L0646:	H0545: 1, L0748: 1 and L0740: 1.	H0545: 1 and L0794:	1,						•										L0588: 2, H0545: 1	and L0603: 1.		
	Thr-17 to Gly-22, Gln-69 to Glu-74.	Arg-5 to Thr-16.		Asn-74 to Pro-80.																		Pro-3 to Ser-16,	Pro-27 to Gly-32,	Pro-49 to Ala-58,	Thr-70 to Lys-78.
	5149	5150	5151	5152	5153																	5154			
	156 - 557	218 - 436	47 - 199	373 - 122	187 - 501																	1 - 234			
	2462	2463	2464	2465	2466																	2467			
	788834	919737	929114	828110	961623																	785410			
	нумво90	HJMBN02	HJMB193	HJMAV93	HJMAU07																	HJMAQ86			

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								•															104770,	107670,	110700, 145001.
												•											1q12-1q21.2		
L0163: 2, H0545: 1 and L0754: 1.	H0545: 1 and L0740:	1.	H0545.1	- (AR061: 4, AR089: 2	H0046: 1 and L0758:	H0046: 1, L0439: 1,	L0740: 1 and L0591: 1.	H0046: 1 and L0731:	1.	L0748: 2, H0046: 1	and L0766: 1.	H0046: 1	H0046: 1	H0046: 1	H0046: 1, L0748: 1	and L0581: 1.	H0046: 1 and L0439:	1.	H0046: 1	L0738: 1, H0046: 1,	L0527: 1 and L0599: 1.	L0747: 2 and H0046:	1.	
	Arg-1 to Ser-15,	Ser-18 to Ser-33,	Glv-15 to Glv, 21	017-12 W 014-£1:					Pro-39 to Arg-44,	Ala-89 to Glu-103.				Asn-1 to Leu-13.		Ala-39 to Cys-46.	٠			Val-19 to Leu-35.	Cys-11 to Pro-19,	Asn-28 to Leu-35.	Val-20 to Gly-26,	Asn-62 to Arg-68.	
5155	5156		5157	1775	5158		5159		5160		5161		5162	5163	5164	5165		2166		5167	5168		5169		
130 - 477	78 - 452		195 - 356	200	3 - 416		109 - 306		13 - 321		218 - 415		2 - 247	2 - 166	70 - 204	250 - 420		181 - 336		3 - 113	2 - 352		113 - 343		
2468	2469		2470		2471		2472		2473		2474		2475	2476	2477	2478		2479		2480	2481		2482		
62223	811222		742612	0,000	79/,606		752542		622199		921649		529467	529587	529589	742157		677490		533536	961038		929285		-
	HJMAJ91		HIMAI62	TTP-TT	HEILF29		HETJY68		HETD12		HETHO01		HETHB18		HETFF43	HETDU61		HETDA25		HETCO27	HETCH01		HETBM55		

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146760,	146790,	159001,	191315,	600897,	601412,	601652,	601863,	602491	180020,	600320,																113721,	247200,
									6q25																2pter-n25.1	17p13.3	ı
									H0046: 1 and L0731:	 i	L0740: 3 and H0046:	H0046: 1 and 1 0777.	1.	H0046: 1 and L0748:	1.	L0747: 2, H0046: 1	and L0748: 1.	H0544: 1, L0775: 1,	L0776: 1 and L0758: 1.		H0544: 1 and L0731:		H0544: 1	H0544: 1	H0544: 1	H0544: 1	
									Glu-31 to Gly-37,	Leu-42 to Gln-49.	Ser-73 to Lys-91.	Pro-17 to Ser-23		Ser-22 to Lys-31,	Thr-39 to Glu-47.	Ala-24 to Ser-31,	Val-52 to Asp-61.	Ser-54 to Ala-59,	Ser-64 to Phe-69,	Arg-/9 to 1nr-8/.			Thr-7 to Gly-14.			Ser-1 to Pro-23,	Pro-35 to Asn-45,
									5170	1	5171	5172		5173		5174		5175			5176		5177	5178	5179	5180	
									124 - 447		237 - 548	12 - 188		14 - 187		575 - 757		375 - 659			252 - 10		463 - 245	29 - 142	1 - 276	2 - 295	
									2483		2484	2485		2486		2487		2488			2489		2490	2491	2492	2493	
									965638		790499	778539		754155		660831		924849			773528		855578	739877	827915	427813	
									HETBE61		HETAS91	HETAS81		HETAS62		HETAJ14	\neg	HEQCC01			HEQBT78		HEQBP18	HEQBI09	\vdash	неовсе0	

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600059,	00100														
	H0544: 1		H0544: 1	H0544: 1 and L0599:	H0544: 1 and L0752:	H0544: 1, L0439: 1 and L0754: 1.	L0439: 2 and H0544:	L0731: 5 and H0544:	L0747: 3 and H0544:	L0777: 4, H0150: 1	and LU/5/: 1.	H0150: 1 and L0747:	L0754: 2 and H0150:	H0150: 1 and L0743:	L0744: 2, L0731: 2 and
Cys-53 to Arg-70.	Asp-13 to Lys-20,	Inr-45 to Ala-49.	Glu-18 to Pro-27, Asp-58 to Asn-65.	Phe-2 to Gly-7.				Trp-1 to Ser-10.	Lys-6 to Arg-11, Thr-22 to Gly-34.		Ser-10 to Cys-22, Ser-33 to Ser-38, Ser-58 to Tra-66				
	5181	3	5182	5183	5184	5185	5186	5187	5188	5189		5190	5191	5192	5193
	101 - 265	101	101 - 451	97 - 402	50 - 160	2 - 298	3 - 200	82 - 555	340 - 519	72 - 305		146 - 349	1 - 240	29 - 193	2 - 172
•	2494	2000	2495	2496	2497	2498	2499	2500	2501	2502		2503	2504	2505	2506
	772860	30000	cusuo/	916321	739220	793250	729594	914044	792255	941270		952996	783362	825778	535627
	HEQBE78	TIEODE21	пе(ве/1	HEQAZ01	HEQAM59	HEQAK94	HEQAF54	HEQAD73	HEQAA93	HEPCB04		HEPBO92	HEPBO85	HEPAY26	HEPAX40

	125852,	126452	126452	141000	141900,	141900,	141900,	141900,	141900,	141900,	142000,	142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	192500,	194071,	194071,	204500,	600856,	601680,	602631,	602631	
	11p15.5	•																												
H0150: 1.	L0766: 3, L0776: 2,	H0150: 1, L0371: 1	1.0761: 1, 1.0764: 1	1 0662: 1 1 0655: 1	L0002. 1, L0033: 1,	L0748: 1, L0754: 1,	L0749: 1 and L0779: 1.																							L0748: 2, L0756: 2,
	5194																											•		5195
	1 - 330																								·					245 - 511
	2507																													2508
	99299																													707533
	HEPAX16																													HEPAQ35

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L0777: 2, H0150: 1, L0789: 1, 1,0666: 1 and	L0758: 1.	H0150: 1 and L0777:			H0150: 1 and L0780:	1.		H0150: 1 and L0763:		H0150: 1 and L0743:	1.		H0150: 1, L0779: 1	and L0758: 1.			H0150: 1 and L0743:	1.	H0150: 1 and L0522:	H0550: 1 and L0646:	1.	H0550: 1 and L0745:	1.	H0550: 1 and L0605:	H0550: 1 and L0766:	
		Pro-17 to Val-26,	His-34 to Lys-41,	Pro-54 to Phe-66.	Lys-15 to Leu-29,	Lys-45 to Glu-55,	Lys-82 to Lys-89.	Leu-42 to Gly-54.		His-1 to Ser-10,	Pro-22 to Gly-38,	Asn-55 to Ser-60.	Thr-1 to Arg-16,	Ala-45 to Gln-50,	Pro-63 to Ala-68,	Ala-80 to Asp-93.	Gly-38 to Asp-56.		Leu-15 to Lys-24.			Val-6 to Glu-11,	Phe-22 to Cys-29.		Lys-18 to Glu-23,	Gln-60 to Ala-67.
		5196			5197			5198		5199			5200				5201		5202	5203		5204		5205	5206	
		369 - 623			223 - 489			4 - 177		55 - 243			71 - 367				174 - 353		3 - 107	2 - 304		95 - 352		217 - 372	3 - 230	
		2509			2510			2511		2512			2513				2514		2515	2516		2517		2518	2519	
		703336			932893			633036		657440			933091				509130	000,00	921389	922550		751233		915596	927260	
		HEPAP34			HEPAN05			HEPAK04		HEPAJ14			HEPAJ04				HEPAE58	2004 4 4444	HEPAE02	HEGBC03		HEGBB67		HEGBA01	HEGAX04	

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300067, 300067, 300121, 300121, 301201, 301835, 311850						152200, 167000, 180020, 600320, 600883, 602544		
Xq22.3						6q25.2-q27		
H0550: 1, L0748: 1 and L0749: 1.	H0550: 1, L0745: 1 and L0731: 1.	L0731: 2, L0597: 2, H0550: 1, L0783: 1 and L0439: 1.	H0550: 1 and L0758: 1.	H0549: 1 and L0748:	AR051: 4, AR050: 2, AR054: 2 H0549: 1	H0549: 1, L0589: 1 and L0366: 1.	H0549: 1 and L0594: 1.	L0794: 6, L0806: 2, L0752: 2, H0549: 1, L0796: 1, L0766: 1,
	Lys-5 to Gly-11.	Pro-7 to Val-13.	Ser-7 to Cys-21, Ile-59 to Gly-64.	Asn-1 to Lys-14.	Arg-65 to Arg-72.	Asn-45 to Thr-50, Pro-52 to Arg-57.	Leu-32 to Leu-38.	
5207	5208	5209	5210	5211	5212	5213	5214	5215
1 - 273	153 - 359	344 - 511	2 - 196	222 - 383	2 - 328	222 - 398	249 - 413	101 - 784
2520	2521	2522	2523	2524	2525	2526	2527	2528
789940	731654	959216	918992	782706	912065	710655	738892	677599
HEGAQ91	HEGAL55	HEGAJ08	HEGAC02	HEEAY84	HEEAX09			HEEAM25

																								120110,	121014, 601666,
											···													6q21	•
L0380: 1, L0803: 1,	L0804: 1, L0807: 1,	L0789: 1, L0663: 1,	L0755: 1, L0596: 1 and	L0485: 1.	H0549: 1 and L0599:	1.	H0549: 1 and L0748:	1.	H0549: 1 and L0601:	<u>.</u>		H0549: 1 and L0747:	1.	H0549: 1 and L0605:	1.	AR050: 66, AR054:	64, AR051: 63, AR089:	13, AR061: 3	H0549: 1		H0549; 1 and L0756:	H0549: 1 and L0748:	H0369: 1 and L0740:	H0369: 1 and L0745:	1.
							Val-21 to Gly-26,	Leu-29 to Gly-38.	Pro-3 to Phe-9,	Ser-17 to Ala-24,	Val-52 to Lys-62.	Ser-45 to Ser-50,	Tyr-103 to Phe-110.	Glu-61 to Val-77,	Phe-81 to Ser-88.	Thr-29 to Pro-49,	Asp-65 to Glu-77.	•				Val-15 to Ala-23, Pro-30 to Ser-35.	Val-22 to Gly-29.	Lys-80 to Lys-86.	
					5216		5217		5218			5219		5220		5221	-			5381	5222	5223	5224	5225	
					114 - 344		16-213		219 - 404			15 - 344		1 - 423		266 - 36				429 - 295	1 - 195	128 - 310	63 - 182	53 - 364	
					2529		2530		2531			2532		2533		2534				2694	2535	2536	2537	2538	
					794257		266692		734488			661827		930810		724929				887048	470886	710668	684734	911255	
					HEEAH94		HEEAH76		HEEAH57			HEEAH16		HEEAG51		HEEAG12					HEEAD13	HEEAB40	HEAAX26	HEAAU20	

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	H0369: 1	H0369: 1 and L0769:	H0369: 1 and L0748:	L0539: 1, H0369: 1 and L0748: 1.	H0369: 1 and L0589: 1.	H0369: 1	•					L0731: 9, L0754: 3 and	H0369-1	1.0626: 1.1.0775: 1	L0776: 1 and H0670: 1.	L0769: 1, L0665: 1 and	H0670: 1.			H0670: 1 and L0758:	L0779: 3, L0758: 3 and H0670: 1.
		Gly-1 to Ser-6.		Thr-3 to Ala-10, Glu-30 to Arg-38.	Leu-23 to His-28.		Arg-43 to Ser-49,	Glu-55 to Ser-61,	Pro-70 to Arg-75,	Cys-91 to Gly-103.	Arg-45 to Gly-52.	Glu-24 to Tyr-31.		Pro-1 to Arg-14.))	Pro-15 to Glu-21,	Ala-43 to Glu-58,	Leu-96 to Glu-101,	Ala-111 to Ala-119.	Thr-29 to Arg-43.	
	5226	5227	5228	5229	5230	5231	5382				5383	5232	5233	5234		5235				5236	5237
	20 - 220	353 - 535	235 - 336	321 - 563	2 - 136	962 - 396	1539 - 1913				316 - 504	598 - 792	438 - 740	2 - 142		158 - 628				185 - 313	79 - 240
	2539	2540	2541	2542	2543	2544	2695		-		2696	2545	2546	2547		2548				2549	2550
	973284	883939	842032	920736	770200	896892	904209				906483	714041	844361	928679		933473				951645	951655
	HEAAR47	HEAAR21	HEAAN43	HEAAM71	HEAAL76	HEAAG84						HEAAG42	HEAAB66	HCORB05		HCOPM06				HCOPI07	HCOPF07

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					_																		-					
H0670: 1, L0731: 1	and L0759: 1.	L0517: 1, L0438: 1,	H0670: 1 and L0439: 1.	L0517: 2, L0756: 2,	L0803: 1, L0776: 1,	L0809: 1, L0663: 1,	H0670: 1, L0755: 1 and	LU/39. 1.	AR089: 1, AR061: 1	H0670: 1										H0484: 1 and L0743:	1.			H0484: 1, L0617: 1,	L0772: 1, L0751: 1 and	L0752: 1.	AR061: 1, AR089: 1	H0484: 1 and L0589: 1.
Pro-13 to Ser-19,	Asp-27 to Thr-35.	Asn-7 to Val-13.		Asp-5 to Ala-11,	Trp-24 to Phe-31,	Arg-44 to Trp-50.			Gln-19 to Asp-38,	Pro-46 to Thr-55,	Leu-96 to Gly-104,	Ala-114 to Ala-119,	Gln-125 to Trp-131,	Pro-133 to Pro-141,	Phe-144 to Glu-150,	Glu-180 to Val-185,	Glu-192 to Glu-197,	Glu-254 to Leu-262,	Met-272 to Ser-280.	Cys-6 to Lys-21,	Ser-53 to Ile-65,	Asn-68 to Gln-80,	Arg-106 to Ala-114.	Arg-1 to Lys-12,	Gly-57 to Gly-62,	Pro-74 to Asp-80.	Lys-1 to Ser-13.	
5238		5239		5240				.,	5241											5242				5243			5244	
221 - 493		148 - 306		474 - 217		-	_	,	I - 840											13 - 357				1 - 741			122 - 325	
2551		2552		2553				1110	2554				•							2555				2556			2557	
951693		917577		971637				020200	756576											908495				957690			862478	
HC00F07		HCONP02		HCONM33				TOOLOGIC	HCOMMOS 925952											HCHQA48				HCHOX63			HCHNW48	

					i																					i i
H0484: 1 and L0749:	L0757: 2 and H0484:	<u>.r</u>				H0484: 1 and L0439:	-		AR051: 32, AR054:	29, AR050: 28	H0484: 1	H0484: 1 and L0792:	<u> </u>				L0749: 3 and H0483:	11.	H0483: 1 and L0764:	L0748: 3, L0596: 2,	H0483: 1, L0439: 1 and	L0749: 1.	H0483: 1	H0483: 1		
	Leu-8 to Val-20,	Arg-25 to Arg-35,	Ala-38 to Trp-46,	Phe-69 to Tyr-75,	Ser-96 to Trp-104.	Ala-1 to Gly-8,	Arg-16 to Ser-21,	Ser-35 to Pro-45, Ala-61 to Glv-67				Lys-67 to Ser-79,	Ser-89 to Thr-109,	Asn-116 to Ser-129,	Glu-140 to Lys-147,	Ser-161 to Lys-172.	Gly-1 to Trp-6,	Gly-74 to 1 m-80.		Phe-32 to Ala-37.				Gly-4 to Lys-10,	Gln-36 to Glu-41,	Arg-61 to Arg-76.
5245	5246					5247			5248			5249					5250		5251	5252			5253	5254	_	
2 - 349	97 - 408					3 - 218			3 - 248			52 - 591					248 - 499		251 - 502	214 - 462			11 - 193	11 - 241		
2558	2559					2560			2561			2562					2563		2564	2565			2566	2567		
850340	586996					786765			800129			932298	-				952957		869084	686431			773428	805289		
HCHMX82	HCHIMW18					HCHIMJ89			HCHMI96			HCHIMI15					HCHCI07		нснсн68	HCHCG28			HCHCE78	НСНВ Q27		

107741,	113900,	122/20,	177/70,	126340,	126391,	160900,	164731,	173850,	207750,	248600,	258501																	
19q13.2																												
H0483: 1												H0483: 1		H0483: 1	H0483: 1	H0483: 1	L0752: 1 and S0398: 1.	L0777: 1, L0758: 1,	L0697: 1 and S0398: 1.	S0398: 1	L0439: 1 and S0398: 1.		S0398: 1	S0398: 1	S0398: 1	S0398: 1	S0398: 1	L0587: 1 and S0398: 1.
Gly-1 to Ser-13.								•				Gly-4 to Lys-10,	Gln-36 to Glu-41.	Lys-1 to Lys-21.		Ser-26 to Thr-44.	Gly-12 to Cys-27.	Glu-8 to Met-22,	Pro-104 to Pro-109.	Glu-12 to Leu-20.	Gln-9 to Val-17,	Phe-38 to Glu-45.					Gly-12 to His-19.	Gly-13 to Asn-22.
5255												5256		5257	5258	5259	5260	5261		5262	5263		5264	5265	5266	5267	5268	5269
1 - 177						•						13 - 153		2 - 148	1 - 75	3 - 212	98 - 386	147 - 473		160 - 330	47 - 283		116 - 271	2 - 241	28 - 183	185 - 289	128 - 244	2 - 202
2568												2569		2570	2571	2572	2573	2574		2575	2576		2577	2578	2579	2580	2581	2582
625420					-	•						681404		743411	487985	726081	796196	863374		785134	129119		675490	672815	934663	789551	713300	711996
HCHBN09 625420												HCHBM26		HCHAI62	HCHAH04	HCHAG52	HCDMF96	HCDME32		HCDMC86	HCDMC25		HCDMC23	HCDMC22	HCDMC06	HCDMB91		HCDMB41

																							-	
S0398: 1	AR050: 93, AR054:	S0398: 1	L0753: 1 and S0398: 1.	S0398: 1		L0438: 1, L0439: 1 and S0398: 1.	H0661: 1, L0805: 1	and L0776: 1.		H0661: 1 and L0740:	1.	H0661: 1 and L0603:	H0661: 1, L0664: 1,	L0754: 1 and L0749: 1.			S0190: 1	L0771: 2 and S0190: 1.	S0190: 1				-	L0741: 3 and S0188: 1.
	Pro-7 to Gly-24.		Gly-38 to Gly-51.	Cys-20 to His-27,	Glu-35 to Lys-54.		Pro-12 to Thr-21,		Thr-53 to Gln-75, Ser-92 to Gly-98.			Glu-22 to Glu-49.	Ala-1 to Asn-9,	Thr-24 to Asn-29,	Gly-43 to Arg-53,	Arg-106 to Arg-111.	Gln-7 to Lys-14.		Val-8 to Leu-14,	Pro-22 to Arg-31,	Thr-62 to Lys-68,	Arg-76 to Cys-82,	Trp-85 to His-91.	
5270	5271		5272	5273		5274	5275			5276		5277	5278		-		5279	5280	5281					5282
23 - 148	418 - 627		115 - 267	88 - 252		3 - 92	3 - 401			230 - 358		371 - 138	207 - 653		• •,	•	2 - 79	40 - 291	59 - 427					2 - 244
2583	2584		2585	2586		2587	2588			2589		2590	2591				2592	2593	2594					2595
682389	816896		958542	923316		669201	922388			951788		961718	965394				926407	920249	699335					764479
HCDMB27	HCDMB12		HCDMB08	HCDMB03		HCDMA20	HCBND03			HCBMZ07		HCBMY10	HCBMG11				HBZSK04	HBZSG02	HBZSD32					HBZAJ73

S0188: 1 and L0747: 1.	S0188: 1 and L0605: 1.	S0188: 1	S0188: 1 and L0587: 1.	L0774: 3, L0775: 1,	L0809: 1, S0188: 1 and	L0758: 1.	H0188: 1 and L0751:	L0774: 2, 1,0741: 2	L0439: 2, L0411: 1 and	H0188: 1.	H0188: 1, L0663: 1	and L0748: 1.	H0188: 1 and L0526:	1.	H0188: 1, L0769: 1	U0100.1 2.4 1 0740.	HU168: 1 and LU/48: 1.	H0188: 1		L0439: 3 and H0188:	-	H0188: 1 and L0748:	H0188: 1	H0188: 1
Gly-38 to Ser-44.			Lys-26 to His-31.	Pro-1 to Gln-15,	Gln-38 to Asn-45,	Pro-57 to Thr-65.	Arg-54 to Arg-60.	Glu-17 to Tvr-22.	•				Trp-18 to Gly-23,	Ser-25 to Met-31.			,						Asp-30 to Trp-36, Ser-39 to Trp-44.	Arg-10 to Glu-32.
5283	5284	5285	5286	5287			5288	5289			5290		5291		5292	5203	5635	5294	5384	5295		5296	5297	5298
198 - 443	545 - 808	3 - 203	240 - 362	160 - 414			222 - 473	3-155	·		245 - 409		63 - 215		2 - 298	950-05	007 - 00	143 - 3	1 - 186	372 - 79		87 - 236	3 - 152	1-318
2596	2597	2598	2599	2600			2601	2602			2603		2604		2605	2606	2000	2607	2697	2608		2609	2610	2611
681829	847621	847620	660348	959560			887096	430360			703113		907015		960664	712676	12010	600905	847732	868924		764716	286797	525831
HBZAJ26	HBZAI39	HBZAI14	HBZAB15	HBZAB08			HBNBQ50	HBNBO30			HBNBL29		HBNBJ29		HBNB106	HRNRR41	T CONTON	HBNBB27		HBNBB09		HBNAW73	HBNAC74	HBNAC71

																						-					
H0188: 1	H0188: 1 and L0591:	1.	H0188: 1	H0188: 1	H0188: 1		H0188: 1	H0188: 1	AR050: 173, AR051:	169, AR054: 143,	AR089: 46, AR061: 9	H0617: 1	H0617: 1, L0766: 1	and L0788: 1.	AR054: 7, AR051: 2,	AR050: 1	H0617: 1, L0769: 1,	L0637: 1 and L0789: 1.	H0617: 1, L0767: 1,	L0775: 1 and L0779: 1.	L0779: 2, L0752: 2,	H0617: 1 and L0794: 1.	H0617: 1, L0774: 1,	L0747: 1 and L0752: 1.	H0617: 1 and L0750:		L0758: 2 and H0617:
					Leu-2 to Gln-11,	Lys-35 to Lys-48.		Pro-24 to Ala-37.			31,				Pro-16 to Gly-38,	Arg-50 to Arg-58,	Asp-65 to Asn-81.		Thr-10 to Gly-16.		Ser-73 to Lys-78,	Pro-93 to Gly-100.	-		Pro-46 to Gly-55,	Arg-79 to Cys-89.	Ser-28 to Trp-36.
5299	2300		5301	2305	5303		5304	2305	9088				5307		5308				5309		5310		5311		5312		5313
150 - 308	1 - 120		1-111	34 - 183	3 - 146		92 - 8	2 - 199	14 - 556				71 - 325		2 - 448				1 - 570		55 - 354		28 - 507		3 - 272		104 - 307
2612	2613		2614	2615	2616		2617	2618	2619				2620		2621				2622		2623		2624		2625		2626
721983	714263		526549	525832	525834		525833	921187	903653				965121		886650				848179		926973		954374		754392		773043
HBNAC48	HBNAC42		HBNAC32	HBNAC28	HBNAC25	_	HBNAC09	HBNAC02	HBGTT76				HBGTE11		HBGQS88				HBGNL85		HBGND04		HBGMT82		HBGMS69		HBGMO78

				T				_						_									_
							102200,	106100,	131100,	131100,	131100,	133780,	147050,	153700,	161015,	164009,	168461,	168461,	168461,	180721,	180840,	191181,	193235,
							11q13	·															
AR050: 297, AR051:	H0617: 1	L0748: 2, H0606: 1 and L0593: 1.	H0606: 1 and L0777:	L0439: 6, L0776: 2, L0777: 2, H0181: 1,	AR089: 0, AR061: 0	H0181: 1	AR089: 33, AR061: 29 11q13	H0181: 1															
Lys-3 to Leu-13,	110-70 to 301-70.		Gly-18 to Gly-24, Gly-31 to Ser-38, His-57 to Asm-62		Leu-92 to Phe-98.																		
5314		5315	5316	5317	5318		5319																
37 - 363		358 - 140	267 - 473	3 - 374	2 - 355		2 - 277																
2627		2628	2629	2630	2631		2632																
880276		914032	727748	702854	861602	•	832888																
HBGMG81		HBGFS88	HBGFG53	нвсрнзз	HBGDF39		HBGDA74																

209901, 232600, 259700, 259770, 600045, 600319, 600528,																				
	H0181: 1	H0181: 1	H0181: 1		H0181: 1	H0181: 1	H0181: 1 and L0741:	1.	AR061: 1, AR089: 1	H0663: 1 and L0783:	L0779: 3, H0663: 1,	L0757: 1 and L0758: 1.	H0663: 1 and L0766:	1.	H0664: 1 and L0758:	1.	L0754: 2, H0664: 1	and L0748: 1.	H0294: 1 and L0777:	1.
	Lys-8 to Ala-14.		Leu-8 to Gly-19,	Leu-31 to Cys-36.	Ser-1 to Glu-10.		Ser-11 to Trp-17,	Pro-19 to Thr-28.	Arg-1 to Arg-8,	Glu-29 to Arg-37.	Ala-26 to Val-32.		Lys-25 to Asn-34,	Thr-92 to Gly-98.	Glu-14 to Ala-30,	Ile-46 to Lys-53.	Arg-5 to Ser-15.		Cys-1 to Arg-15,	Lys-28 to Asp-36,
	5320	5321	5322		5323	5324	5325		5326		5327		5328		5329		5330		5331	
	1-57	2 - 157	120 - 257		1 - 150	1 - 69	1 - 342		2 - 403		135 - 356		194 - 514		349 - 507		3 - 137		31 - 402	
	2633	2634	2635		2636	2637	2638		2639		2640		2641		2642		2643		2644	
	802090	588263	522424		525837	971466	773930		932817		927520		922493		917981		951898		764851	
	HBGBG69	HBGBG67	HBGBG52		HBGBG38	HBGBE12	HBGBB78		HBCPV80		HBCPO75		HBCPK03		HBCJP02		HBCJG07		HAUCC58	

					Thr-64 to Leu-74,		
					Cys-99 to Arg-107,		
					Lys-117 to Arg-124.		
HAUAW51 577959	577959	2645	119 - 349	5332	Ser-24 to Trp-30,	H0294: 1 and L0748:	
					Glu-38 to Arg-50.	1.	
HAUAS89 518847	518847	2646	25 - 132	5333		H0294: 1	
HAUAQ28 685374	685374	2647	320 - 427	5334		H0294: 1 and L0608:	
						1.	
HAQCF25 678235	678235	2648	1 - 303	5335		L0794: 2, L0599: 2,	
						H0295: 1, L0763: 1,	
						L0800: 1 and L0515: 1.	
HAQCD07 958959	958959	2649	198 - 425	5336	Arg-25 to Ser-50.	H0295: 1 and L0780:	
						- pund	
HACMR08 955638	952638	2650	2 - 280	5337	Leu-30 to Lys-38,	L0809: 2, H0685: 1,	
					Trp-49 to Ala-58,	L0776: 1 and L0780: 1.	
					Gly-75 to Pro-80.		

The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

- [067] The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the reproductive system associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.
- [068] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.
- [069] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In some embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on

the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[070] Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array, cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly expressed in reproductive

system tissues, including normal and diseased reproductive system tissues (See Table 1A, column 7 and Table 4).

- [071] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.
- [072] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.
- [073] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIMTM (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification

numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 1B

Clone ID	SEQ ID	CONTIG	BAC ID: A	SEQ ID	EXON
NO:Z	NO:X	ID:		NO:B	From-To
HAOSH55	14	952380	AL353194	5385	1-964
					1250-1399
			1		2650-2905
				1	3588-3668
					3971-4987
į					5854-5963
					7336-7775
	İ				7870-8256
			Į.		8419-8895
					9000-9339
HAOSH55	14	952380	AL353194	5386	1-90
HAQAK73	15	764671	AC023906	5387	1-739
HAQAK73	15	764671	AC023906	5388	1-845
HAQBS37	20	847519	AP002519	5389	1-168
					683-777
				ł	1538-3043
J					3578-4180
					5564-5793
					6266-6409
	j	1		ļ	6412-6738
					7035-7451
HAUBD69	21	529711	AL359674	5390	1-138
HAUBD69	21	529711	AL359674	5391	1-380
HAUBU10	22	968339	AC027538	5392	1-463
HAUBU10	22	968339	AC010770	5393	1-463
HAUBU10	22	968339	AC027538	5394	1-288
HAUBU10	22	968339	AC010770	5395	1-288
HBCQS93	27	930682	AL109945	5396	1-310
			<u> </u>		1220-1839
HBCQS93	27	930682	AC022307	5397	1-310
					1220-1839
:					2206-2683
		·			2691-2788
					3337-3381
HBCQS93	27	930682	AL109945	5398	1-131
HBGBF56	29	957870	AL031963	5399	1-249
HBGBF56	29	957870	AL133351	5400	1-249
HBGBF56	29	957870	AL031963	5401	1-249
HBGBF56	29	957870	AL031963	5402	1-429
HBGBF56	29	957870	AL133351	5403	1-580
	1				1364-1792
					2134-2229
					3072-3565

			T .	· ·	3973-4080
HBGBF56	29	957870	AL031963	5404	1-349
HBGBF56	29	957870	AL133351	5405	1-349
HBGBF56	29	957870	AL031963	5406	1-349
HBGBG42	30	922396	AL096773	5407	1-518
	1	1		į	1341-1514
					3365-3956
		;			4169-4282
					4430-4892
					6254-7763
HBGBG42	30	922396	AL096773	5408	1-114
HBGBG42	30	922396	AL096773	5409	1-3033
HBGBH43	31	524532	AP000757	5410	1-726
HBGBH43	31	524532	AP000683	5411	1-726
HBGBH43	31	524532	AP000757	5412	1-249
		1			299-451
	1 .				651-926
HBGBH43	31	524532	AP000683	5413	1-249
					299-452
					651-926
HBGBS07	32	954299	AL358472	5414	1-93
					229-341
	İ				458-525
					639-725
	[-	820-2416
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HODHL56	496	847724	AC019257	6442	1-493
HODHO11	497	965529	AC027399	6443	1-317
HODHO11	497	965529	AC027399	6444	1-318
HODHS34	498	965460	AC022665	6445	1-532
HODHS34	498	965460	AL078646	6446	1-317
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HODHS34	498	965460	AL078646	6448	1-615
HODHS34	498	965460	AL117349	6449	1-615
HODHY53	499	914554	AC026367	6450	1-669
HODHY53	499	914554	AC027063	6451	1-669
HODJZ90	502	965049	AC009118	6452	1-155
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HODJZ90	502	965049	AC068659	6453	1-168
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HODJZ90	502	965049	AC010287	6454	1-152
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HPMFP30	824	577629	AC008072	6964	1-322
HPMFP30	824	577629	AC008072	6965	1-258
HPMFP38	825	575914	AC006121	6966	1-76
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HPMFP38	825	575914	AL109797	6967	1-76
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HPMFV82	831	575911	AL160231	6976	
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TITLETTO	1445		- 		1691-2473
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1					135-253
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HTLEW21	1450	573458	AC008392	7897	1-80
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İ	1				3776-4198
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HILEYII	1451	967309	AC036174	7901	1-88
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	1453	791662	AC006547	7904	1-530
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	1		}	1	699-747
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HTLJA24 1497 934279 AC006237 7949 1-1048 1633-2065 2080-2333 2374-2524 4212-4459 5299-5463 7313-7346 HTLJC71 1498 922923 AC009516 7951 1-2009 HTLJC71 1498 922923 AC009516 7954 1-10747 HTLJC71 1498 922923 AC008757 7952 1-1747 HTLJC71 1498 922923 AC008751 7953 1-2009 HTLJC71 1498 922923 AC008751 7953 1-2009 HTLJC71 1498 922923 AC008765 7954 1-2009 HTLJC71 1498 922923 AC008767 7955 1-375 HTLJC71 1498 922923 AC008516 7955 1-375 HTLJC71 1498 922923 AC008516 7956 1-494 HTLJC71 1498 922923 AC008516 7956 1-494 HTLJC71 1498 922923 AC008757 7957 1-205 HTLJC71 1498 922923 AC008751 7958 1-494 HTLJC71 1498 922923 AC018751 7958 1-494 HTLJC71 1498 922923 AC018751 7958 1-494 HTLJC71 1498 922923 AC023490 7959 1-375 HTLJC71 1498 922923 AC023490 7959 1-375 HTLJC71 1498 922923 AC018751 7960 1-375 HTLJC71 1498 922923 AC018751 7960 1-375 HTLJV75 1501 924755 AL354888 7961 1-1283 HTLJV75 1501 924755 AL354888 7963 1-699 HTLJV75 1501 924755 AL354888 7963 1-699 HTLJV75 1501 924755 AL354888 7963 1-699 HTLJV75 1501 924755 AL354888 7963 1-699 HTLJV75 1501 924755 AL354888 7963 1-699 HTLJV75 1501 924755 AL354888 7963 1-699 HTLJV75 1501 924755 AL354888 7963 1-699 HTLJV75 1501 924755 AL354888 7963 1-151 441-552 1214-1667 1820-2290 2375-2664 4552-5062 5224-5492 6136-6319 6684-7594 7786-8096 52274-5492 6136-6319 6684-7594 7786-8096 52274-5492 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 52274-5929 6136-6319 6684-7594 7786-8096 8297-8930 8932-10855					7947	1-293
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HTEDF22	1935	908406	AL138891	8816	1-155
HTEDF22	1935	908406	AC002418	8817	1-142
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HTECE51	1939	870723	AC016976	8823	1-301
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HTECE31	1941	508104	AC069360	8828	1-283
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HTECD94	1943	527210	AC025959	8832	1-58
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HTECD94	1943	527210	AC025963	8833	1-127
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HTECD94	1943	527210	AC009451	8834	1-127
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HTECD94	1943	527210	AC025959	8835	1-151
HTECD94	1943	527210	AC025963	8836	1-151
HTECD94	1943	527210	AC009451	8837	1-151
HTECD88	1944	527214	AC024631	8838	1-560
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HTECD88	1944	527214	AC024631	8842	1-869
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HTECD88	1944	527214	AC017098	8843	1-263
HTECD70	1945	527203	AC013471	8844	1-243
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					4379-4589
HTECD65	1946	533795	AL137800	8846	1-119
					4380-4590
HTECD65	1946	533795	AL157899	8847	1-489
TYPECD (5	1046		17.10		540-886
HTECD65	1946	533795	AL137800	8848	1-489
IITEOD16	1040	502000	4.0010000	10040	540-2889
HTECD15	1948	523029	AC019082	8849	1-405
HTECD15	1948	523029	AC019082	8850	1-136
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HTECC71	1949	508142	AC060234	8851	1-364
HTECC45	1950	508142	AC034305	8852	1-320
HTECC45	1950	508124	AC034305	8853	1-539
HTECC26	1951	508124	AL158090	8854	1-168
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HTECC09	1952	678659	AC069004	8855	1-91
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HTECA39 1955 508132 AP001883 8861 1-41 HTECA39 1955 508132 AC036150 8862 1-49 HTECA39 1955 508132 AP001883 8863 1-46 HTECA39 1955 508132 AP001883 8863 1-46 HTECA39 1955 508132 AC036150 8864 1-46 HTECA39 1955 508132 AC036150 8864 1-46 HTECA39 1955 508132 AC036150 8864 1-46 HTECA39 1955 508132 AC036150 8865 1-49 HTEBJ02 1960 921321 AL031727 8866 1-138 HTEBJ02 1960 921321 AL031727 8867 1-57 HTEAX06 1962 960792 AC015559 8869 1-66 86-50; 733-117; 2992-337 4191-433' 4759-485; 6000-616; 6241-633' 6731-685; 6932-7048 11315-11469 11660-11816 114929-15256 15410-15569 16041-16200 16626-16799 17095-17498 17712-18272 HTEAX06 1962 960792 AC015559 8870 1-188 1981-2138 3446-3545 3751-3867 3900-4028 HTEAV22 1963 679394 AC016757 8871 1-1823 HTEAV22 1963 679394 AC016757 8871 1-1823 HTEAV22 1963 679394 AC016757 8871 1-1823 HTEAV22 1963 679394 AC016757 8871 1-1823						
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IIIEADSU	1973	724731	AL391030	0007	524-688
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TIT M LION	2410	134476	AC012169	9729	1-200
		- 1			540-702
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	<u>. L</u>			<u> </u>	4388-4755

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HLWEH10	2420	963548	AC016151	9730	1-593
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		<u> </u>			10688-11014
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